CD RECEIVER

# KDC-MP922
# KDC-X869

## SERVICE MANUAL

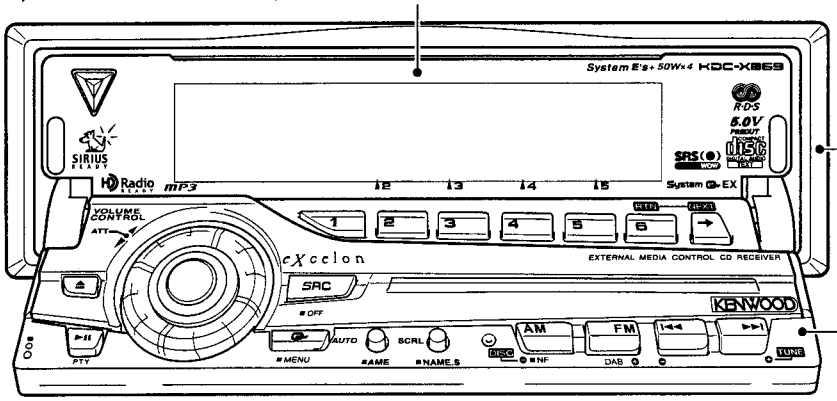
KENWOOD

© 2003-2 PRINTED IN JAPAN
B53-0032-00 (N) 1459

CD mechanism operation description is not in this service manual.
Please, refer to service manual X92-4030-0x (B51-7867-00).

CD mechanism extension cord : W05-0935-00

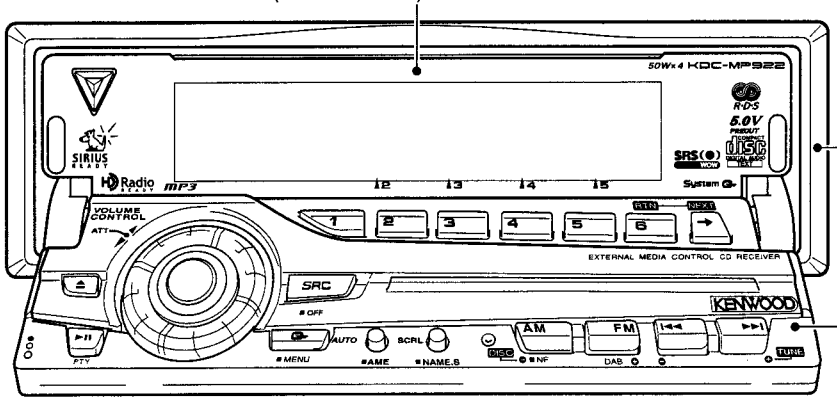
Panel assy
(A64-2976-01): KDC-X869




Escutcheon
(B07-3079-01):
KDC-X869

Panel assy
(A64-2993-02):
KDC-X869

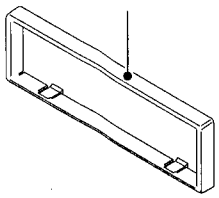
Panel assy
(A64-2977-01): KDC-MP922



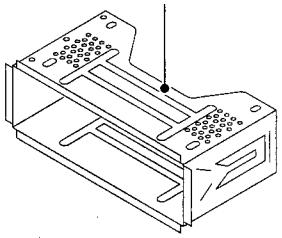

Escutcheon
(B07-3078-01):
KDC-MP922

Panel assy
(A64-2994-02):
KDC-MP922

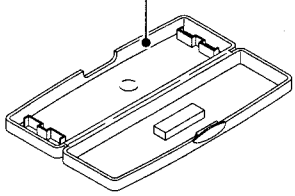
Escutcheon
(B07-3078-01) : KDC-MP922
(B07-3079-01) : KDC-X869



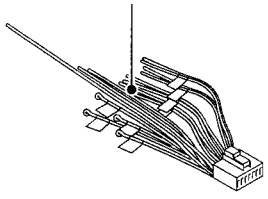
Mounting hardware assy
(J21-9823-03)



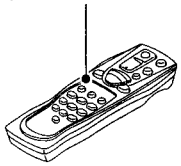
Plastic cabinet assy
(A02-2731-03)



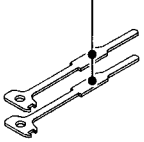
DC cord
(E30-6062-05) : KDC-X869
(E30-6106-05) : KDC-MP922



Remote controller assy
(RC-505)
(A70-2040-05)

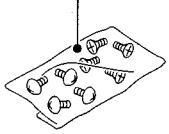


Lever
(D10-4674-04) x 2

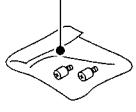


Size AA battery
(Not supplied)

Screw set
(N99-1723-05)



Screw set
(N99-1734-05)



# KDC-MP922/X869

## HOW TO THE PANEL MECHANISM ASSEMBLY

**1. Fixed the position of operation side**

**(Fixed the horizontal position when the panel opened)**

① The mounting hardware (281) of operation side is rotation (A) into the stop position with close side.

② As figure (B) line is just above and the gear (230) attached to pin.

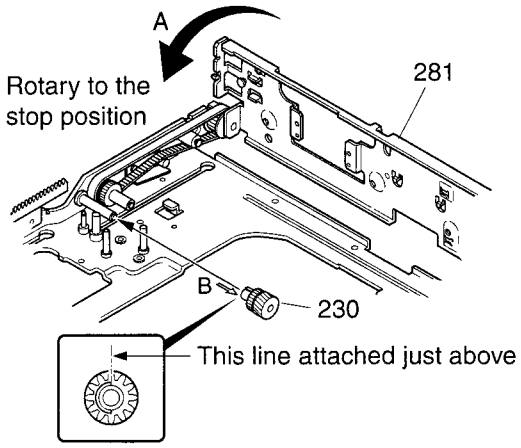
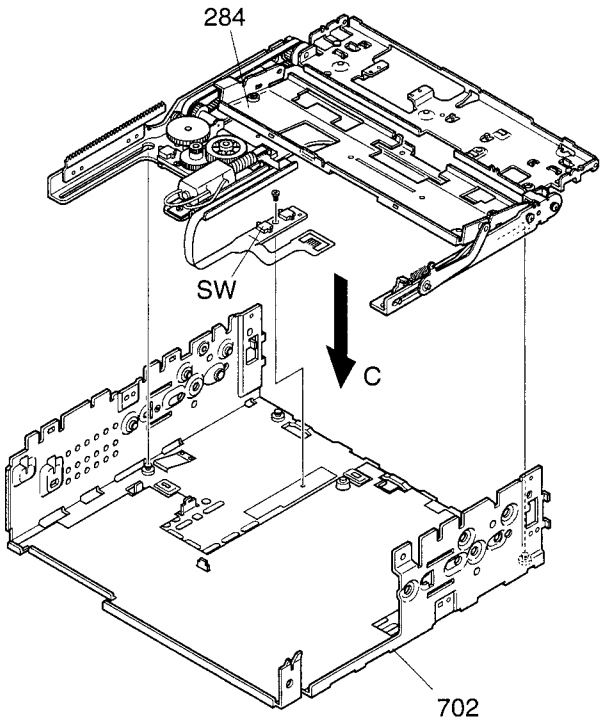



Fig. B
(This figure from look at B arrow)

**2. The slider assembly insert to bottom chassis**

① The bracket for display panel (284) is leave down, insert to the chassis (702). (C)

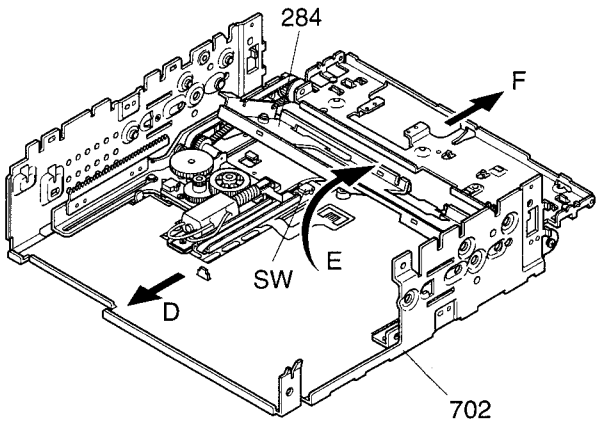



② The slider assembly insert to the chassis (702) after that shift (D) direction.

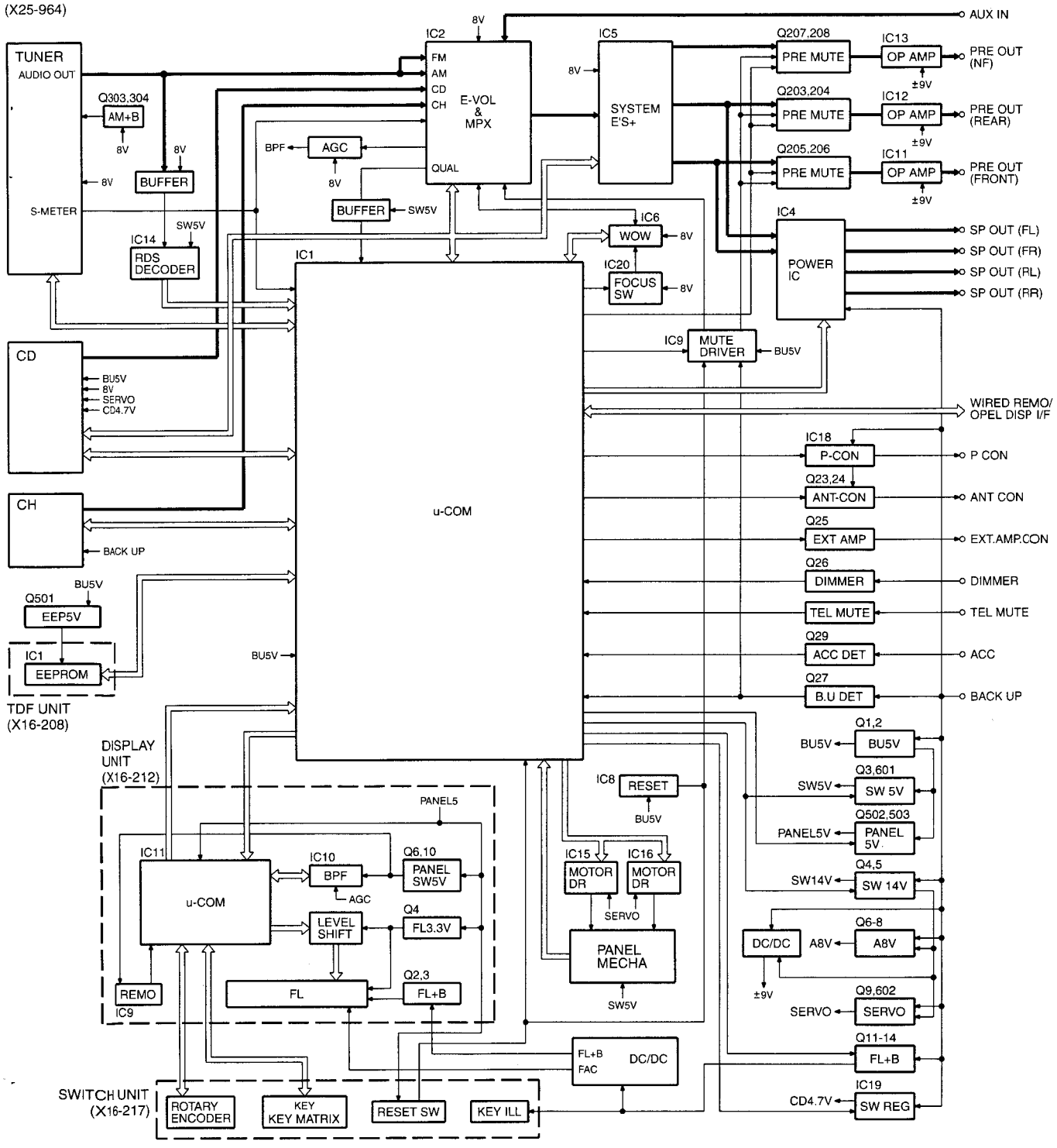
③ The bracket for display panel (284) is raised (E) direction.

④ Keep the raising conditions, the slider assembly is shift (F) direction.

(Note) Do not bend the knob of chassis detection switch when the slider assembly insert.



# BLOCK DIAGRAM



# KDC-MP922/X869

## COMPONENTS DESCRIPTION

### ● SUB-CIRCUIT UNIT (X16-2080-10)

| Ref. No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| IC1 | E2PROM | For security |

### ● SUB-CIRCUIT UNIT (X16-2120-10)

| Ref. No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| IC1 | 3.3V regulator | The power supply of IC and VFD (Logic) which are driven by 3.3V |
| IC2 | Buffer IC | It is change into 3.3V from 5V |
| IC3 | Remote control IC | |
| IC4 | Spectrum analyzer IC | |
| IC5 | Panel μ-com | |
| Q1, 2 | FL+B SW | FL+B (VDD2) is turned on when Q2's base level goes "H" |
| Q3 | REMO ON SW | The power supply of IC2 and IC3 is turned on when Q3's base level goes "L" |
| Q4 | FL BLK SW | VFD is turned on when Q4's base level goes "H" |
| Q5 | Blue LED SW | Blue LED is turned on when Q5's base level goes "H" |

### ● SWITCH UNIT (X16-2170-10)

| Ref. No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| Q1 | DSI (Disabled System Indicator) | DSI blinks when the base goes "H/L" |
| Q2 | KEY illumination SW (GREEN) | ON (KEY illumination green) when the base goes "H" |
| Q3 | KEY illumination SW (RED) | ON (KEY illumination red) when the base goes "H" |

### ● ELECTRIC UNIT (X25-9640-1x)

| Ref. No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| IC1 | System μ-com | |
| IC2 | E-vol & N.C. & MPX | |
| IC3 | Regulator IC for A8V | |
| IC4 | Power IC | |
| IC5 | System E's IC | |
| IC6 | Audio IC (WOW) | |
| IC7 | -9V AVR (DC/DC IC) for 4.5V Pre-out | |
| IC8 | Reset IC | |
| IC9 | Logic IC for muting | |
| IC10 | Buffer for S.A | |
| IC11~13 | AMP for 4.5V Pre-out | |
| IC14 | RDS dcoder IC | |
| IC15, 16 | Motor driver IC for panel mechanism | |
| IC17 | ROM IC | For ROM correction. |

# COMPONENTS DESCRIPTION

| Ref. No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| IC18 | P-CON IC | |
| IC19 | Swiching regulator IC for CD4.7V | |
| IC20 | Analog SW for swiching IC6'focus | |
| Q1, 2 | B.U.5V AVR | While BU is applied, BU5V AVR outputs +5V. |
| Q3, 601 | SW5V | When Q601'base goes Hi, SW5V outputs +5V. |
| Q4, 5 | SW14V | When Q5'base goes Hi, SW14V outputs 14V. |
| Q6~8 | AUDIO 8V AVR | When Q6'base goes Hi, A8V AVR outputs 8.3V. |
| Q9, 602 | SERVO+B AVR | When Q602'base goes Hi, S+B AVR outputs 7.5V. |
| Q11~14 | ILL&DC/DC+B AVR | When Q11'base goes Hi, AVR outputs 9.2V. |
| Q15, 16 | AUDIO 10.5V AVR | When Q16'base goes Hi, AVR outputs 10.5V. |
| Q17~19 | Pre-Amp -9V AVR | Q18 and 19 works as a differential amplifier, Q17 works as a driver and -9.1V is supplied to OP amp for Pre-out. |
| Q20~22 | Pre-Amp +9V AVR | Q20 and 22 works as a differential amplifier, Q21 works as a driver and +9.4V is supplied to OP amp for Pre-out. |
| Q23, 24 | P-ANT SW | When Q23'base goes Hi, P-ANT SW outputs 14V. |
| Q25 | Ex amp control buffer | |
| Q26 | Small lamp det SW | When Q26'base goes Hi, Q26 is turned on. |
| Q27 | BU det | When Q27'base gose Hi, Q27 is turned on. |
| Q29 | ACC det | When Q29'base gose Hi, Q29 is turned on. |
| Q30, 31 | Mute driver | When a base gose Lo, mute driver is turned on. |
| Q201 | Noise buffer | |
| Q202 | E-vol mute SW | When a base gose Hi, mute SW is turned on. |
| Q203~208 | Pre-out mute SW | When a base gose Hi, Pre-out is muted. |
| Q210 | AGC for SA | |
| Q303, 304 | AM+B SW | When Q303'base gose Hi, AM+B is out. |
| Q305 | Composite signal buffer for RDS | |
| Q501 | E2P 5V SW | When Q501'base gose Lo, E2P 5V is out. |
| Q502, 503 | PANEL 5V SW | When Q503'base gose Hi, PANEL 5V is out. |
| Q603 | SW for IC20 | When Q603'base gose Hi, Q603 is turned on. |

# KDC-MP922/X869

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ● SYSTEM MICROCOMPUTER : 703033BGC020 (X25-964 : IC1)

| Pin No. | Pin Name | I/O | Module | Purpose / Description | Truth table | Processing Operation |
|---|---|---|---|---|---|---|
| 1 | PLL_DATA | I/O | Tuner | Data output/input with F/E. | | |
| 2 | AM+B | I/O | Power supply | AM+B. | | AM operation : H |
| 3 | (FM+B) | O | Power supply | FM+B (S01 F/E only). | | FM operation : H,<br>Last FM : H (With RDS, RBDS model) |
| 4 | V_ILL PAN_E2P DATA | I/O | To panel | V-ILL D/A converter (V-ILL, LCD), E2PROM data. | | |
| 5 | V_ILL PAN_E2P CLK | I/O | To panel | V-ILL D/A converter (V-ILL, LCD), E2PROM clock. | | |
| 6 | EVDD | - | | | | |
| 7 | EVSS | - | | | | |
| 8 | AFS | O | Tuner | Noise detection time constant switching. | | FM seek, AF search : L, Receiving : H, Auto 0 : L |
| 9 | BEEP | O | Audio | Beep output. | | |
| 10 | REMO | I | Extra | Remote control input (Panel, External display). | | |
| 11 | P_MUTE | O | Audio | Power IC MUTE output. | | Power OFF : L, All OFF : L, TEL mute : L |
| 12 | (SVR) | O | Audio | Power IC SVR discharge circuit control. | | Power OFF momentary power dropped<br>: H (5 second) and then L |
| 13 | IC2_SDA | I/O | CD | CD mechanism data line. | | |
| | | | Audio | IC2, IC5 data line. | | |
| | | | Extra | ROM correction data line. | | |
| 14 | IC2_CLK | I/O | CD | CD mechanism clock line. | | |
| | | | Audio | IC2, IC5 clock line. | | |
| | | | Extra | ROM correction clock line. | | |
| 15 | P_STBY | O | Audio | Power IC STBY output. | | Power IC ON : H, Power IC OFF : L, All OFF : H |
| 16 | P_CON | I/O | Extra | Power control. | | Power ON : H, Power OFF : Hi-Z, All OFF : Hi-Z |
| 17 | WOW_MODE2 | O | Audio | WOW control. | ① | |
| 18 | TEST | - | | | | Connect to GND. |
| 19 | DIAG | I | Extra | P_CONIC over voltage, over current detection. | | Usually : H, Unusually : L |
| 20 | MUTE | O | Audio | Mute output. | | ON : OPEN, OFF : L |
| 21 | PRE_MUTER | O | Audio | PREOUT (R ch) mute. | | M MUTE L is L : L (CD), Momentary power dropped : L, 2 zone, NAVI interrupt : Fixed H |
| 22 | PRE_MUTEL | O | Audio | PREOUT (L ch) mute. | | M MUTE R is L : L (CD), Momentary power dropped : L, 2 zone, NAVI interrupt : Fixed H |
| 23 | BU_DET | I | Extra | Momentary power dropped detection. | | Backup : L,<br>No backup, momentary power dropped : H |
| 24 | ACC_DET | I | Extra | ACC detection. | | With ACC : L, Without ACC : H |
| 25 | FOCUS | I/O | Audio | WOW focus control. | | Focus HI : H, Focus LOW : Hi-Z |
| 26 | EXT_AMP_CONT | O | Extra | External amplifier control. | | Refer to external amplifier control. |
| | NC | O | | NC (Without EXT_AMP_CONT model) | | Output : L |
| 27 | DIMMER | I | Extra | Small lamp detection. | | ON : L, OFF : H |
| 28 | ANT_CON | O | Extra | Antenna control. | ② | Tuner ON : H, Other source With RDS last FM<br>: H, Other source with RDBS TI ON last FM : H |
| | TYPE2 | I | Extra | Destination select. | ② | K,J type (With ANT_CON model) : L,<br>E type (Without ANT_CON model) : H |
| 29 | P_ON | I/O | Power supply | SW 14V, SW 5V control, AD reference voltage control output. | | Power ON : H, Power OFF : Hi-Z |
| 30 | ILL_ON | I/O | Power supply | FL, illumination output. | | ON : H, OFF : Hi-Z |
| 31 | RESET | - | | | | |
| 32 | XT1 | - | | Sub clock. | | 32.768kHz |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Module | Purpose / Description | Truth table | Processing Operation |
|---|---|---|---|---|---|---|
| 33 | XT2 | - | | Sub clock. | | 32.768kHz |
| 34 | REGC | - | | | | Connect to 1μF capacitor. |
| 35 | X2 | - | | Main clock. | | 20MHz |
| 36 | X1 | - | | Main clock. | | 20MHz |
| 37 | VSS | - | | | | |
| 38 | VDD | - | | | | |
| 39 | CLKOUT | - | | | | |
| 40 | LX_REQ_M | O | LX | Communication request to external slave. | | Request : L |
| 41 | LX_MUTE | I | LX | Mute request from external slave. | | Mute ON : H |
| 42 | LX_CON | O | LX | External slave select. | | ON : H, OFF : L |
| 43 | LX_RST | O | LX | Reset output to external slave μ-com | | Normally : L, After system reset : H (400ms or more) and then L |
| 44 | CD_MECHA+B | O | Power supply | CD 4.7V output. | | CD source : H, Except CD source : L, ON : Fast 50ms than M_STOP, OFF : Slow 50ms than M_STOP |
| 45 | TYPE0 | I | Extra | Destination select. | ② | |
| 46 | TYPE1 | I | Extra | Destination select. | ② | |
| 47 | IC2_TYPE0 | I | Extra | IC2 destination. | ② | |
| 48 | IC2_TYPE1 | I | Extra | IC2 destination. | ② | |
| 49 | PAN5V | I/O | Power supply | Panel 5V control. | | ON : H, Momentary power dropped : Hi-Z |
| 50 | E2P5V | I/O | Power supply | E2PROM, DA converter power supply control. | | ON : L, OFF : Hi-Z |
| 51 | DSI | I/O | To panel | DSI control. | | ON : L, OFF : Hi-Z |
| 52 | MC_REQ | O | To panel | Communication request to panel μ-com. | | |
| 53 | PAN_RST | O | To panel | Reset output to panel μ-com. | | Normally : H, Reset, momentary power dropped : L |
| 54 | WOW_MODE3 | O | Audio | WOW control. | ① | |
| 55 | BVDD | - | | | | |
| 56 | BVSS | - | | | | |
| 57 | SC_CON | O | To panel | Panel μ-com control. | | Power OFF, ACC OFF : L |
| 58 | M_RST | O | CD | Reset output to CD mechanism. | | Normally : H, Reset : L (Per mechanism control) |
| 59 | M_STOP | O | CD | Stop request to CD mechanism. | | Stop : L, CD : H |
| 60 | CD_SW3 | I | CD | DC down switch detection. | | Chucking : H |
| 61 | LO/EJ | I/O | CD | CD mechanism loading/eject switch. | | Stop, brake : Hi-Z, Loading : L, Eject : H |
| 62 | MOSW | O | CD | CD mechanism motor driver switch. | | Loading, eject, brake : H |
| 63 | FPM MOTOR B | O | P-mecha | FPM mechanism (Slider) control. | ③ | |
| 64 | FPM MOTOR F | O | P-mecha | FPM mechanism (Slider) control. | ③ | |
| 65 | FPM MOTOR O | O | P-mecha | FPM mechanism (Angle) control. | ③ | |
| 66 | FPM MOTOR C | O | P-mecha | FPM mechanism (Angle) control. | ③ | |
| 67 | NC | O | | NC (Without external display model) | | Output : L |
| 68 | NC | O | | NC (Without external display model) | | Output : L |
| 69 | NC | O | | NC (Without external display model) | | Output : L |
| 70 | M_MUTER | I | CD | Mute request form CD mechanism. (R ch). | | ON : L (CD) |
| 71 | AVDD | - | | | | |
| 72 | AVSS | - | | | | |
| 73 | AVREF | - | | Connect to P_ON (29 pin). | | |
| 74 | M_MUTEL | I | CD | Mute request form CD mechanism. (L ch). | | ON : L (CD) |
| 75 | PAN_DET | I | To panel | Panel E2PROM detection. | | With : L, Without : H |
| 76 | NC | I | | NC (Without TEL-MUTE model) | | Connect to GND. |

# KDC-MP922/X869

## MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Module | Purpose / Description | Truth table | Processing Operation |
|---|---|---|---|---|---|---|
| 77 | FPM SW4 | I | P-mecha | FPM mechanism position detection, mechanism detection. | ③ | 3.75V or more : No mechanism, 1.25V or more : H, Less than 1.25V : L |
| 78 | FPM SW1 | I | P-mecha | FPM mechanism position detection. | ③ | |
| 79 | FPM SW2 | I | P-mecha | FPM mechanism position detection. | ③ | |
| 80 | FPM SW3 | I | P-mecha | FPM mechanism position detection. | ③ | |
| 81 | FPM PHOUT | I | P-mecha | FPM mechanism position detection. | ③ | H : 2.2V or more |
| 82 | S_METER | I | Tuner | S-meter detection. | | Refer to S03 F/E control. |
| 83 | NOISE | I | Tuner | FM noise detection. | | Refer to S03 F/E control. |
| 84 | IFC_OUT | I | Tuner | F/E IFC OUT input. | | With station : 2.5V or more, refer to S03 F/E control. |
| 85 | NC (POWER_DET) | I | Extra | Power IC DC offset detection. | | 03 model not used. Connect to GND. |
| 86 | NC | O | | NC (Except J type) | | Output : L |
| 87 | R_CLK | I | Tuner | RDS decoder clock input. | | |
| 88 | LX_REQ_S | I | LX | Receive request from external slave. | | Request : L |
| 89 | SC_REQ | I | To panel | Communication request from panel μ-com | | |
| 90 | CD_SW1 | I | CD | Loading switch detection. | | Loading start power off : L |
| 91 | CD_SW2 | I | CD | 12cm disc detection switch. | | 12cm disc power off : L |
| 92 | R_QUAL | I | Tuner | RDS decoder QUAL input. | | |
| 93 | R_DATA | I | Tuner | RDS decoder data input. | | |
| 94 | LX_DATA_S | I | LX | Data input from external slave. | | |
| 95 | LX_DATA_M | O | LX | Data output to external slave. | | |
| 96 | LX_CLK | I/O | LX | Clock input/output with external slave. | | |
| 97 | PAN_RX | I | To panel | Data input from panel μ-com | | |
| 98 | PAN_TX | O | To panel | Data output to panel μ-com | | |
| 99 | WOW_MODE1 | O | Audio | WOW control. | ① | |
| 100 | PLL_CLK | I/O | Tuner | Clock input/output with F/E. | | |

### Truth table

① WOW MODE changover operation

| MODE | WOW_MODE1 | WOW_MODE2 | WOW_MODE3 | FOCUS |
|---|---|---|---|---|
| BYPASS | L | L | L | Don't care |
| TruBass | L | H | L | Don't care |
| 3D-STEREO | L | L | H | Don't care |
| FOCUS LOW | H | L | L | L (Hi-z) |
| FOCUS HI | H | L | L | H |
| WOW LOW | H | H | H | L (Hi-z) |
| WOW HI | H | H | H | H |

② Destination port

| MODEL | Destination | DISPLAY | TYPE2 | TYPE1 | TYPE0 |
|---|---|---|---|---|---|
| KDC-X969 | K | FL | 0 | 0 | 0 |
| KDC-MP922 | K | FL | 0 | 0 | 1 |
| FX-9000 | J | FL | 0 | 1 | 0 |
| KDC-PSW9524 | E | FL | 1 | 0 | 0 |
| KDC-9023R | M (E) | FL | 1 | 0 | 1 |
| KDC-X869 | K | FL | 0 | 1 | 1 |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

| MODEL | Destination | DISPLAY | TYPE2 | TYPE1 | TYPE0 |
|---|---|---|---|---|---|
| KDC-8024 | E | FL | - | - | - |
| KDC-MP822 | K | LCD | - | 0 | 0 |
| KDC-M7024 | E | LCD | - | 0 | 1 |
| FX-5000 | J | LCD | - | 1 | 0 |
| KDC-V7022 | K | LCD | 0 | 0 | 0 |
| KDC-X769 | K | LCD | 0 | 0 | 1 |
| KDC-722 | K | LCD | 0 | 1 | 0 |
| KDC-7024<br>KDC-7024Y | E | LCD | 0 | 1 | 1 |
| KDC-8023 | M (K) | LCD | 1 | 0 | 0 |

Note : When FL model using TYPE2, K & J type (with ANT_CON model) : L, E type (without ANT_CON model) : H

Destination(IC2)

| | TYPE0 | TYPE1 |
|---|---|---|
| Market model | L | L |
| Market model CRSC modiification | L | H |
| OEM model CRSC modification | H | L |
| OEM model CRSC and de-emphasis modification | H | H |

③ FPM MOTOR

| Slide | | FPM mechanism operation |
|---|---|---|
| FPM MOTOR B | FPM MOTOR F | |
| 0 | 0 | Standby |
| 1 | 0 | Backward operation |
| 0 | 1 | Forward operation |
| 1 | 1 | Brake |

| Angle | | FPM mechanism operation |
|---|---|---|
| FPM MOTOR O | FPM MOTOR C | |
| 0 | 0 | Standby |
| 1 | 0 | Angle open direction |
| 0 | 1 | Angle close direction |
| 1 | 1 | Brake |

## ● PANEL MICROCOMPUTER 703032BGFA01 (X16-212 : IC5)

| Pin No. | Pin Name | I/O | Purpose / Description | Procesing Operation |
|---|---|---|---|---|
| 1 | FLDATA1 | O | Data output to FL driver. | |
| 2 | FL CLK | O | Clock output to FL driver. | Communication speed : 2.5MHz |
| 3 | NC | O | | Output : L |
| 4 | FLDATA2 | O | Data output to FL driver. | |
| 5 | CLK IN | I | Serial clock input. | Connect to 2 pin (Reset, low current consumption mode : FL CLK output "L"). |
| 6 | SYS TX | I | Data input from system μ-com. | (Reset, low current consumption mode : System μ-com output "L") |

# KDC-MP922/X869

## MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Purpose / Description | Procesing Operation |
|---|---|---|---|---|
| 7 | SYS RX | O | Data output to system μ-com. | Communication speed : 1.25Mbps |
| 8 | NC | O | | Output : L |
| 9 | Evdd | - | PAN 5V | |
| 10 | Evss | - | Vss | |
| 11~13 | NC | O | | Output : L |
| 14 | FL LATCH | O | Latch output to FL driver. | |
| 15 | FL GCP | O | Bright control. | |
| 16~19 | NC | O | | Output : L |
| 20 | FL BLK | O | Display switching signal output to FL driver. | H : Display ON, L : Display OFF |
| 21 | TEST | I | | Connect to GND. |
| 22~25 | NC | O | | Output : L |
| 26~29 | KS1~KS4 | I/O | Key scan. | Key scan (Hi-Z/L) |
| 30 | REMO ON | I/O | Remote control IC power on/off. | Hi-Z : OFF, L : ON (Time constant check, 500μs) |
| 31 | BLUE LED | O | Blue LED ON/OFF. | H : ON, L : OFF |
| 32 | RED LED | O | Illumination red changeover. | H : ON, L : OFF |
| 33 | GREEN LED | O | Illumination green changeover. | H : ON, L : OFF |
| 34 | RESET | I | Reset. | L : Reset, H : Reset cancel |
| 35 | TX1 | - | | |
| 36 | TX2 | - | | |
| 37 | REGC | - | | Connect to 1μF capacitor. |
| 38 | X1 | - | Main clock. | 20MHz |
| 39 | X2 | - | Main clock. | 20MHz |
| 40 | Vss | - | Vss | |
| 41 | VDD | - | Vdd | |
| 42 | CLKOUT | - | | |
| 43~47 | NC | O | | Output : L |
| 48 | FL+3.3V | O | FL3.3V ON/OFF. | Hi-Z : OFF, L : ON (Time constant check, 1ms) |
| 49 | FL+B | I/O | FL+B ON/OFF. | Hi-Z : OFF, L : ON (Time constant check, 35μs) |
| 50~57 | NC | O | | Output : L |
| 58 | Vdd | - | Vdd | |
| 59 | Vss | - | Vss | |
| 60~69 | NC | O | | Output : L |
| 70 | VOLUME B | I | VOL input. | |
| 71 | VOLUME A | I | VOL input. | |
| 72 | SA RST | O | Spectrum analyzer IC reset. | H : reset, L : Normally |
| 73 | AV CONT | O | VREF control. | Operation : H |
| 74 | Avdd | - | Vdd | |
| 75 | Avss | - | Vss | |
| 76 | Avref | - | | Connect to 73 pin. |
| 77 | F01 | I | BPF (63Hz) | |
| 78 | F02 | I | BPF (150Hz) | |
| 79 | F03 | I | BPF (330Hz) | |
| 80 | F04 | I | BPF (1kHz) | |
| 81 | F05 | I | BPF (3.3kHz) | |
| 82 | F06 | I | BPF (10kHz) | |
| 83 | WAVE IN | I | Audio input. | |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Purpose / Description | Procesing Operation |
|---|---|---|---|---|
| 84~88 | KR5~KR1 | I | Key return. | |
| 89 | SC REQ | O | Communication request to system μ-com. | H : Request |
| 90 | NC(FAC IN) | O | | Output : L |
| 91 | SC CON | I | Panel μ-com control. | H : Operation |
| 92 | OPEN KEY | I | OPEN key input. | H : OFF, L : ON |
| 93 | SRC KEY | I | SRC key input. | H : OFF, L : ON |
| 94 | NC | O | | Output : L |
| 95 | MC REQ | I | Communication request from system μ-com. | H : Request (Reset, low current consumption mode : System μ-com output "L") |
| 96 | NC | O | | Output : L |
| 97~99 | NC | O | | Output : L (Flash μ-com writing port) |
| 100 | NC | O | | Output : L |

## ● MECHANISM MICROCOMPUTER : 703033BYGC-J02 (X32-541 : IC7)

| Pin No. | Pin Name | I/O | Use | Processing Operation | STBY Processing |
|---|---|---|---|---|---|
| 1 | NC | O | Not used. | Fixed Low | Low |
| 2 | E2P_SCL | O | ROM correction E2P IC2 clock. | | Hi-Z |
| 3~5 | NC | O | Not used. | Fixed Low | Low |
| 6 | VDD | - | 5V | | |
| 7 | GND | - | GND | | |
| 8, 9 | NC | O | Not used. | Fixed Low | Low |
| 10 | PON | O | Power ON/OFF control. | H : ON, L : OFF | Low |
| 11 | /PON | O | Power ON/OFF control. | H : OFF, L : ON | High |
| 12 | LOE/LIM_SW | I | Down limit switch detection. | L : Most Inner position detection | Hi-Z |
| 13 | 8EjE_SW | I | Not used. | Fixed Low | Hi-Z |
| 14 | LOS_SW | I | Not used. | Fixed Low | Hi-Z |
| 15 | 12EjE_SW | I | Not used. | Fixed Low | Hi-Z |
| 16, 17 | NC | O | Not used. | Fixed Low | Low |
| 18 | IC/Vpp | - | Write voltage (Flash). | | - |
| 19 | MUTE_L | O | L ch audio mute control. | L : Mute ON, H : Mute OFF | Low |
| 20 | MUTE_R | O | R ch audio mute conrol. | L : Mute ON, H : Mute OFF | Low |
| 21~25 | NC | O | Not used. | Fixed Low | Low |
| 26 | EFLG | I | WMA error detection. | H : Error, L : No error | Hi-Z |
| 27 | WAIT | I | Wait control signal detection. | | Hi-Z |
| 28 | FOK | I | Focus condition detection. | H : Focus OK, L : Focus NG | Hi-Z |
| 29, 30 | NC | O | Not used. | Fixed Low | Low |
| 31 | RESET | I | Reset detection. | H : Normal, L : Reset | Hi-Z |
| 32 | XT1 | I | Not used. | | Hi-Z |
| 33 | XT2 | - | Not used. | | - |
| 34 | REGC | - | | | |
| 35 | X2 | - | | | |
| 36 | X1 | I | | | Hi-Z |
| 37 | Vss | - | GND | | |

# KDC-MP922/X869

## MICROCOMPUTER'S TERMINAL DESCRIPTION

| Pin No. | Pin Name | I/O | Use | Processing Operation | STBY Processing |
|---|---|---|---|---|---|
| 38 | VDD | - | 5V | | |
| 39 | NC | O | NC | Output stop. | Low |
| 40 | WRL | O | Multiplex WRITE signal. | _LBEN : 61002 (Not used), _WRL : 63760 | Out-Low |
| 41 | NC | O | Not used. | Fixed Low | Low |
| 42 | R/W | O | Multiplex _R/W signal | _R/W : 61002, _WRH : 63760 (Not used) | Out-Low |
| 43 | DSTB,RD | O | Multiplex DSTB or RD signal | _DSTB : 61002, _RD : 63760 | Out-Low |
| 44 | ASTB | O | Multiplex ASTB signal | | Out-Low |
| 45, 46 | NC | O | Not used. | Fixed Low | Low |
| 47~54 | AD0~AD7 | I/O | Multiplex address/data | | Out-Low |
| 55 | BVdd | - | Bus interface power supply. | | |
| 56 | BVss | - | Bus interface GND. | | |
| 57~64 | AD8~AD15 | I/O | Multiplex data/address | | Out-Low |
| 65 | /HCSB | O | Chip select control. | H : OFF, L : ON | Low |
| 66 | /CS | O | Chip select control. | H : OFF, L : ON | Low |
| 67 | DSP RESET | O | DSP reset control. | H : Normal. L : Reset | Low |
| 68 | REQ | I | Data transfer request input. | | Hi-Z |
| 69 | DBBWRDY0 | I | DBB00 register write permission input. | | Hi-Z |
| 70 | DBBRRDY0 | I | DBB00 register read permission input. | | Hi-Z |
| 71 | Avdd | - | | | |
| 72 | Avss | - | | | |
| 73 | Avref | I | A/D port reference voltage input. | | |
| 74 | WTS | I | WMA table select. | H : WMA8 table, L : WMA9 table | Hi-Z |
| 75 | MDL_SEL | I | Model port changeover. | H : 03 model, L : 02 model | Hi-Z |
| 76, 77 | NC | I | Not used. | Fixed Low | Hi-Z |
| 78 | HOT | I | Temperature rise detection. | Detection voltage : 4V, Reset voltage 3.9V | Hi-Z |
| 79 | NC | I | Not used. | Fixed Low | Hi-Z |
| 80 | WMA | I | WMA correspond changeover. | H : DXM6500 (With WMA), L : DXM6400 (Without WMA) | Hi-Z |
| 81 | NC | I | Not used. | | Hi-Z |
| 82 | ASEL | I | Audio output pole changeover. | H : Invert output, L : Normal output | Hi-Z |
| 83 | DASC | I | Shock proof changeover. | H : Shock proof OFF, L : Shock proof ON | Hi-Z |
| 84 | E2P_WR | I | E2PROM write changeover. | H : E2PROM write, L : Normal | Hi-Z |
| 85 | PIC_SEL | I | PICK UP changeover. | H : KPC6C, L : KSS710 | Hi-Z |
| 86 | NC | O | Not used. | Fixed Low | Low |
| 87 | MSTOP | I | Standby restart interrupt. | H : Standby, L: Stop | Hi-Z (Low input) |
| 88 | INTSV | I | Servo IC interrupt. | H : Interrupt | Hi-Z |
| 89 | FOGUP | I | Focus gain up interrupt. | H : Focus gain up, L : Normal | Hi-Z |
| 90 | ZMUTE_R | I | 0 bit mute detection. | H : Mute ON, L : Mute OFF | Hi-Z |
| 91 | ZMUTE_L | I | 0 bit mute detection. | H : Mute ON, L : Mute OFF | Hi-Z |
| 92 | NC | O | Not used. | Fixed Low | Low |
| 93 | D-MUTE | O | Driver mute. | H : OFF, L : ON | Low |
| 94 | SYS_SDA | I/O | System μ-com I2C data. | | Hi-Z |
| 95 | NC | O | Not used. | Fixed Low | Low |
| 96 | SYS_SCL | I/O | System μ-com I2C clock. | | Hi-Z |
| 97~99 | NC | O | Not used. | Fixed Low | Low |
| 100 | E2P_SDA | O | ROM correction E2P I2C data. | | Hi-Z |

# TEST MODE

## ● How to enter the test mode

While pressing and holding the Preset 1 and Preset 3 keys, reset the unit.

## ● How to exit from the test mode

While holding the Preset 6 key, reset the unit.
(Note) The test mode cannot be terminated by reset the unit, ACC OFF, power OFF and Panel detached, momentary power down.

## ● Initial status in the test mode

- Sources : ALL OFF
- Display : All segments are lit.
- Volume : -10 dB (displayed as "30" )
- Loudness : OFF
- CRSC : OFF regardless of the presence of switching function.
- SYSTEM Q : Flat
- WOW : All OFF
- BEEP : When pressing any keys, the buzzer generates a beep at any time.
- AUX : ON
- MENU SYSTEM Q : OFF
- Variable model : Default is white
- Multifunction : Source dependency (Preset, SCAN, etc.)

## ● Special display in Tuner mode

When any of the following messages is displayed in Tuner mode, the F/E may be abnormal.

- "TNE2P NG" : The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG" : Communication with the F/E is not possible.

## ● Forced switching of K3I

Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO.

- The initial status is AUTO and the display shows these modes as follows.
- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

## ● Test mode specifications of the CD receiver

- Forced ejection is inhibited in the reset start operation. When the unit is reset while a CD is loaded in it, the CD is not recognized by resetting.
- Each press of the Track Up key jumps to the following track numbers:
  No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (The cycle restarts from here.)
- Each press of the Track Down key jumps to the previous track number to the track being played.
- When the number of total trucks of the MP3 disc or the WMA disc is less than 9, 1st truck is played.
- When the disc media is CD, A short press of the Preset 1 key jumps to the track number 28.
- When the model is equipped the CD mechanism assembly adapted for MP3 or MP3/WMA disc, the mechanism name and version number are displayed during the FL model is lower stand and Display mode of LCD model is DNPS.

## ● Audio-related specifications

- Pressing the ✻ key on the remote initiates the audio adjustment mode.
- BL/F key on the Fader initials.
- Continuous holding of a remote control key is inhibited, and workings are short press of any keys.
- Bass, Middle and Treble are adjusted in 3 steps of -8 / 0 / +8 with the Track Up/Down keys (Default value at 0).
- Balance is adjusted in 3 steps of L15 / 0 / R15 with the Track Up/Down keys (Default value at 0).
- Fader is adjusted in 3 steps of R15 / 0 / F15 with the Track Up/Down keys (Default value at 0).
- HPF is adjusted in 2 steps of OFF / 170Hz (or 220Hz) with the Track Up/Down keys (Default value at OFF).
- LPF is adjusted in 2 steps of OFF / 120Hz with the Track Up/Down keys (Default value at OFF).
- Bass f, Bass Q, Bass EXT, Middle f, Middle Q and Treble f are not dealt with by the audio adjust.
- The WOW key pass during the audio adjustment as following steps.

| Order | Mod. | | | Display |
|---|---|---|---|---|
| | TruBass | FOCUS | SRS | |
| ① | OFF | OFF | OFF | SRS WOW OFF |
| ② | ON | OFF | OFF | SRS TruBass ON |
| ③ | OFF | LOW | OFF | FOCUS LOW |
| ④ | OFF | HIGH | OFF | FOCUS HIGH |
| ⑤ | OFF | OFF | ON | SRS ON |
| ⑥ | ON | HIGH | ON | SRS WOW HIGH |

# KDC-MP922/X869

## TEST MODE

### ● Menu-related specifications

- A short press of the Q key initiates the menu mode.
- Pressing the DNPP key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited, and workings are short press of any keys.
- Contrast is adjusted in 3 steps of 0 / 5 / 10 with the Track Up/Down keys (Default value at 5).

### ● Backup current measurement

When the unit is reset while ACC is OFF (i.e. by turning Backup ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second. (The CD mechanism is not activated at this time.)

### ● Special display when the display is all on

Pressing the Preset keys while the power is ALL OFF displays the following information.

| | |
|---|---|
| [PRESET 1] | Version display (8 digits, Month/Day/Hour/Minute)<br>(Display) SYS xxxxxxxx : System microcomputer<br>PAN xxxxxxxx : FL model only<br>MEM xxxxxxxx : 4 contrasts FL model only |
| [PRESET 2] | Serial number display (8 digits)<br>(Display) SNo xxxxxxxx |
| [PRESET 3] | Short press : View power ON time. (The All OFF period is not counted.)<br>2 seconds long press/hold : Clear power ON time at the power ON time displaying.<br>(Display) PonTim xxxxx Max. 60000 (hours) |
| [PRESET 4] | Short press : Display CD operation time.<br>2 seconds long press/hold : Clear CD operation time at the CD operation time displaying.<br>(Display) CDTim xxxxx Max. 60000 (hours) |
| [PRESET 5] | Short press : Display CD ejection count.<br>2 seconds long press/hold : Clear CD ejection count at the CD ejection count displaying.<br>(Display) EjeCnt xxxxx Max. 60000 (times) |
| [PRESET 6] | Short press : Display Panel open/close count.<br>2 seconds long press/hold : Clear Panel open/close count at the Panel open/close count.<br>(Display) PnCnt xxxxxx Max. 600000 (times) |
| FM key | Display ROM collection version.<br>(Display) ROM R xxx Invalid : "R – – –" |
| AM key | Display panel E2PROM condition.<br>(Display) P–ROM OK (Registered code)<br>P–ROM NG (Code is write in error)<br>P–ROM WAIT (Unregistered code)<br>P-ROM NON (Panel security nonfunctional) |

### ● Panel mechanism

- Auto-panel close inhibition when set-in the CD.
- The panel operation inhibition at power ON/OFF and ACC ON/OFF.
- The panel position changing Eject ⟷ Last with a short press of the PLAY/PAUSE keys.

### ● Other specifications

- No displays such as "CODE OFF/ON" during Power-ON.
- The LINE MUTE inhibition time is one second from 10 seconds when start-up the test mode.
- Do not write the security code with the security jig on the test mode.
- Do not write the serial with the serial writing jig on the test mode.
- OEM display output is not stop if OEM display not connection on the test mode.

### ● Switching the frequency span (K/M type)

While holding the Preset 1 key and Preset 5 key, reset the unit.

### ● Response to OEM setting

**(Destination of electronic volume setting)**

S03F/E models are response to OEM models option at put in μ-com 2 pin.

Its setting are following steps.

| IC2 TYPE0 (47 pin) | IC2 TYPE1 (48 pin) | Description |
|---|---|---|
| Low | Low | ① Trade model (Initial quantify) |
| Low | High | ② Trade model (CRSC change) |
| High | Low | ③ OEM model-ready CRSC change |
| High | High | ④ OEM model-ready CRSC & de-emphasis change |

### ● Security-related information

**1. Forced Power ON mode (All models)**

Even when the security (Cord) is approved, resetting the unit while holding the Q and Preset 4 keys makes it possible to turn the power ON for 30 minutes.

After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again. (Security code is do not clear at this mode. Put the power on fill-in.)

# TEST MODE

## 2. Method of registration of the security code after EEPROM (F/E) replacement (Code security model)

1) Enter the test mode. (See How to enter the test mode)
2) Press the MENU key to enter the Menu mode.
3) When the message "Security" is displayed, press and hold the Track Up/Down key for 1 second to enter the security registration mode.
4) Enter the code using the FM/AM/Track Up/Track Down keys.
   FM key : Number up
   AM key : Number down
   Track Up key : Cursor right shift
   Track Down key : Cursor left shift
5) Hold down the Track Up key for at least 3 seconds and the message, "RE-ENTER" appears, so once again enter the code according to Step 4 above.
6) Press and hold the Track Up key for 3 seconds until "APPROVED" is displayed.
7) Exit from the test mode. (See 2. How to exit from the test mode)
   (Note 1) All Clear is not applicable to the security code of this model.
   (Note 2) When the F/E changed, need re-inscription because the panel security is clear.

## 3. Simple way to clear the security code (K type only)

1) During code request mode, press the Track UP key for at least 3 seconds while holding down the AUTO key. (– – – – will disappear)
2) Enter, "KCAR" with the remote controller as described below.
   • Press the remote controller 5 key twice, and press the Track Up key. (Enters a "K" )
   • Press the remote controller 2 key three times, and press the Track Up key. (Enters a "C" )
   • Press the remote controller 2 key once, and press the Track Up key. (Enters an "A" )
   • Press the remote controller 7 key twice, and press the Track Up key. (Enters an "R" )
3) Security function is canceled and unit sets to All-Off mode.
4) Code request mode appears if a mistake was made in entering the numbers.

## 4. How to inscription the panel security code

1) Enter the test mode.
2) Pressing the AM key on all lighting, check the "P-ROM WAIT" display.
3) The NEXT key is long press 2 seconds, writing the code.
4) Display is "P-ROM OK".
5) Exit from the test mode.
   (Note) E2PROM connection is NG when display is "P-ROM NG", so detach the panel and rewrite after the display is "P-ROM WAIT". This code can not clear.

### ● Check the SRAM

Output (Hi) to the SRAM_CHECK terminal on 101 pin when SRAM is function properly on the panel of 4 gradation FL models.

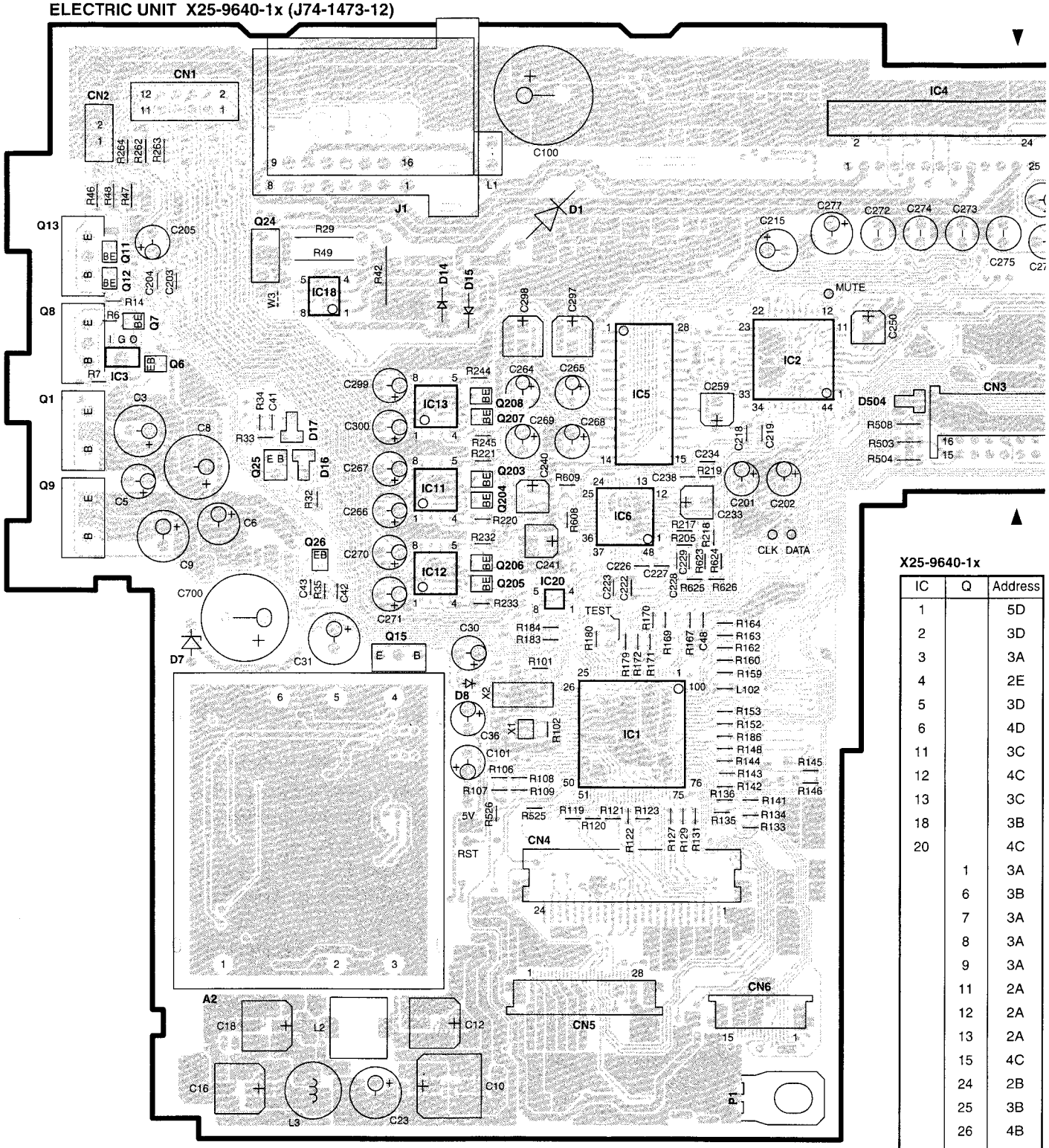
### ● Check the Flash ROM

1) Display to the following effect at ALL OFF by assortment system computer and panel for cover the customization model attach the panel with no Flash ROM.
   • Customization system computer + Flash ROM panel : All lighting
   • Non customization system computer + Non Flash ROM panel : All lighting
   • Customization system computer + Non Flash ROM panel : Panel NG
   • Non customization system computer + Flash ROM panel : Panel NG
2) Output (Hi) to the FLASHROM_CHECK terminal on 102 pin when Flash ROM is function properly.
3) Flash ROM data is initialized when pressing the AM key long hold at all lighting.
   Display is "Data Erase ...." in data erasing mode. Do not touch anything this mode. When the data erase completed, display is "Erase OK!!".
   If display is "Erase NG!!!!!!", Flash ROM data unable erase for some kind or another factors.
   When same effect as pressing the AM key long hold and data erase once again, Flash ROM is defective.

# KDC-MP922/X869

## PC BOARD (COMPONENT SIDE VIEW)

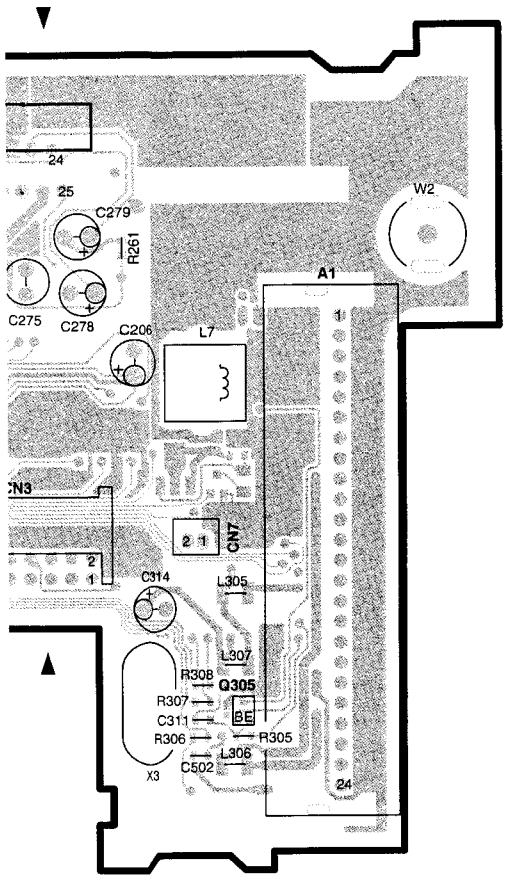
ELECTRIC UNIT X25-9640-1x (J74-1473-12)



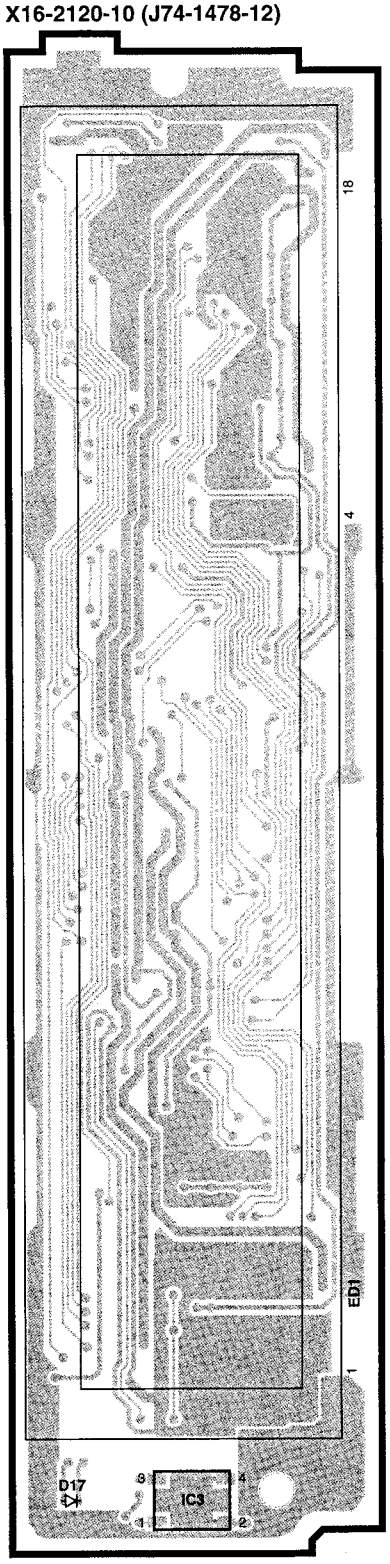

X25-9640-1x

| IC | Q | Address |
|---|---|---|
| 1 | | 5D |
| 2 | | 3D |
| 3 | | 3A |
| 4 | | 2E |
| 5 | | 3D |
| 6 | | 4D |
| 11 | | 3C |
| 12 | | 4C |
| 13 | | 3C |
| 18 | | 3B |
| 20 | | 4C |
| | 1 | 3A |
| | 6 | 3B |
| | 7 | 3A |
| | 8 | 3A |
| | 9 | 3A |
| | 11 | 2A |
| | 12 | 2A |
| | 13 | 2A |
| | 15 | 4C |
| | 24 | 2B |
| | 25 | 3B |
| | 26 | 4B |
| | 203 | 3C |
| | 204 | 3C |
| | 205 | 4C |
| | 206 | 4C |
| | 207 | 3C |
| | 208 | 3C |
| | 305 | 4F |

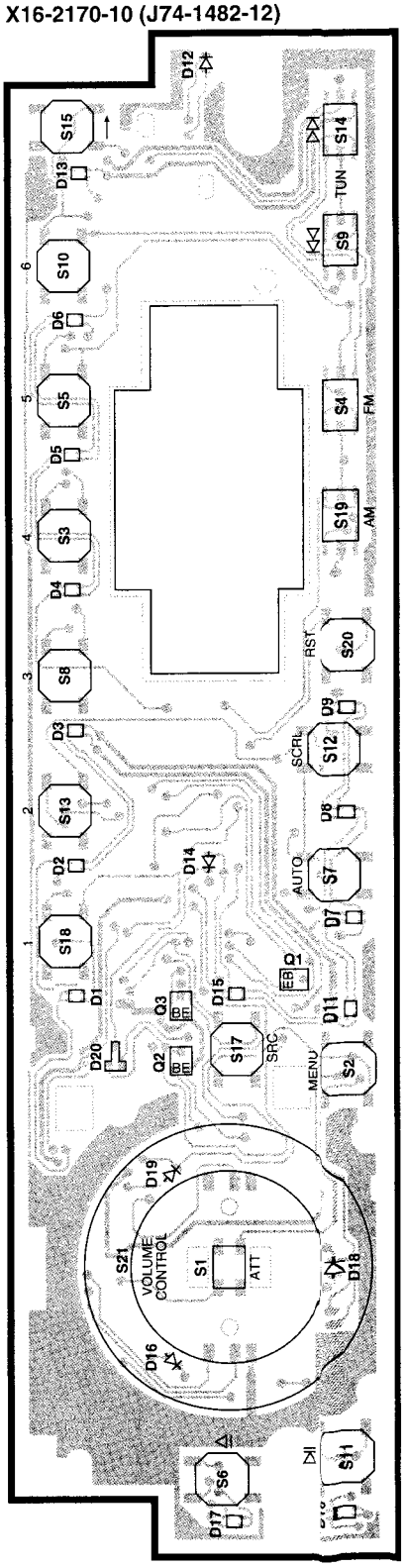
Refer to the schematic diagram for the values of resistors and capacitors.




**SUB-CIRCUIT UNIT**
**X16-2120-10 (J74-1478-12)**




**SWITCH UNIT**
**X16-2170-10 (J74-1482-12)**




**X16-2120-10**

| IC | Address |
|---|---|
| 3 | 6H |

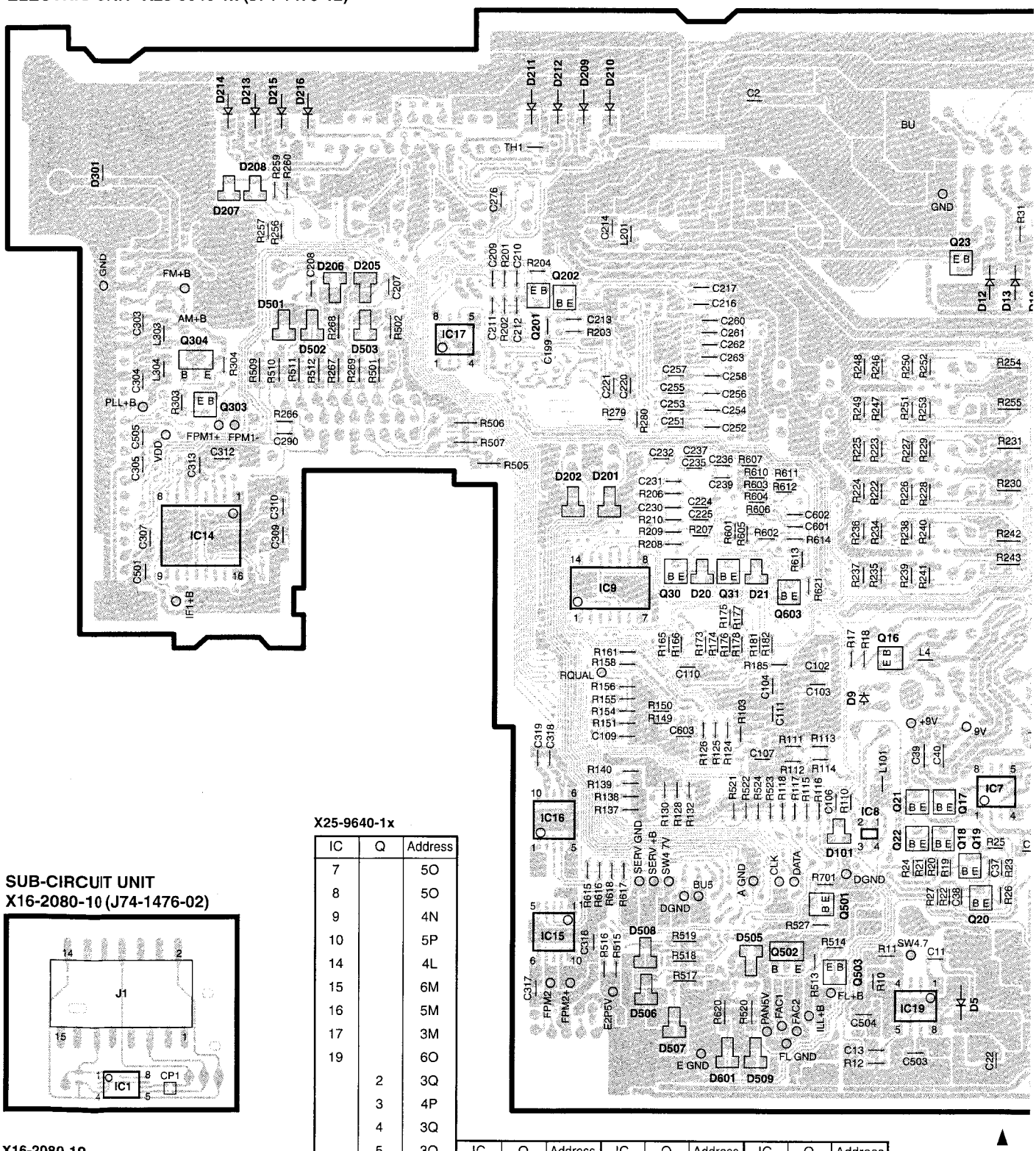
**X16-2170-10**

| Q | Address |
|---|---|
| 1 | 5J |
| 2 | 5I |
| 3 | 5I |

# KDC-MP922/X869

## PC BOARD (FOIL SIDE VIEW)

**ELECTRIC UNIT X25-9640-1x (J74-1473-12)**




**SUB-CIRCUIT UNIT**
**X16-2080-10 (J74-1476-02)**



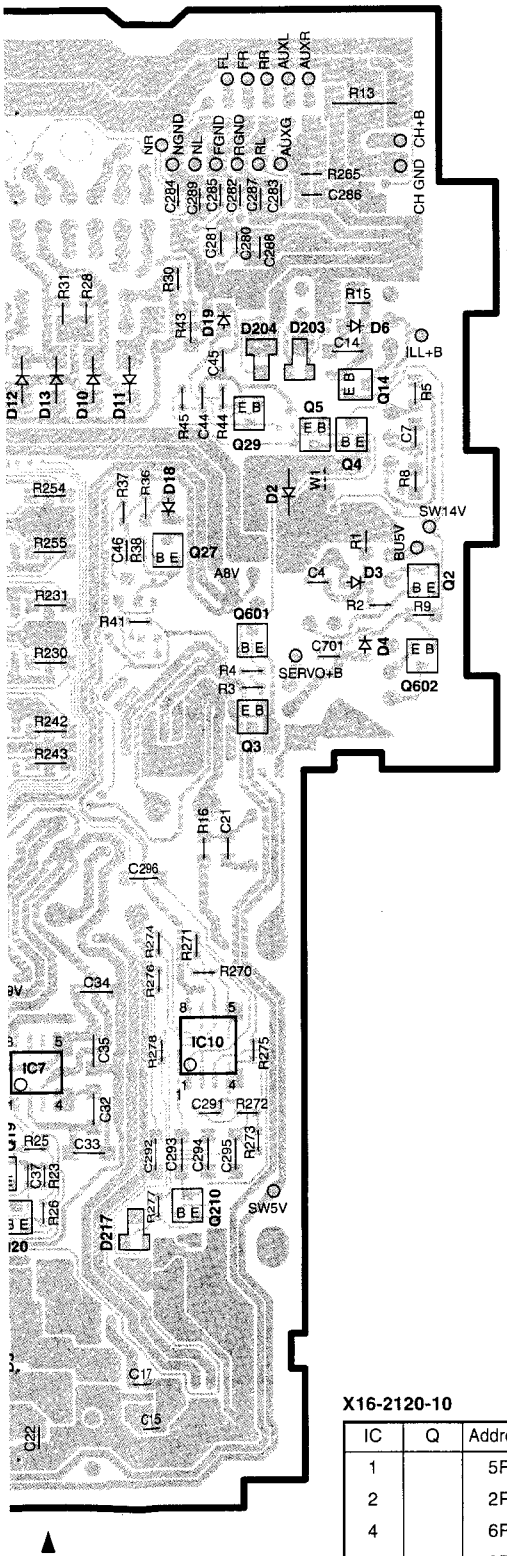

**X16-2080-10**

| IC | Address |
|---|---|
| 1 | 6K |

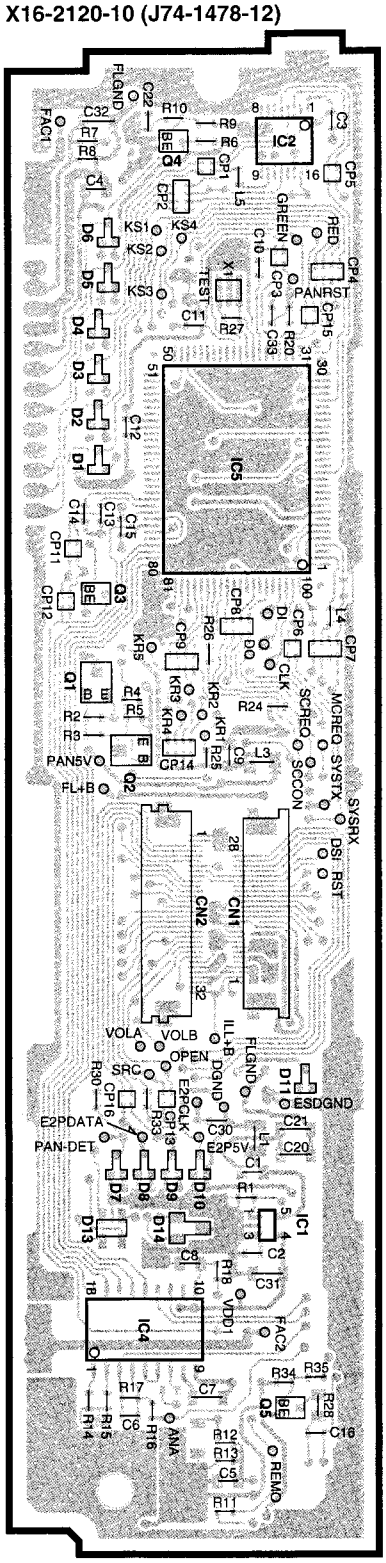
**X25-9640-1x**

| IC | Q | Address |
|---|---|---|
| 7 | | 5O |
| 8 | | 5O |
| 9 | | 4N |
| 10 | | 5P |
| 14 | | 4L |
| 15 | | 6M |
| 16 | | 5M |
| 17 | | 3M |
| 19 | | 6O |
| | 2 | 3Q |
| | 3 | 4P |
| | 4 | 3Q |
| | 5 | 3Q |
| | 14 | 3Q |
| | 16 | 4O |
| | 17 | 5O |
| | 18 | 5O |
| | 19 | 5O |
| | 20 | 5O |

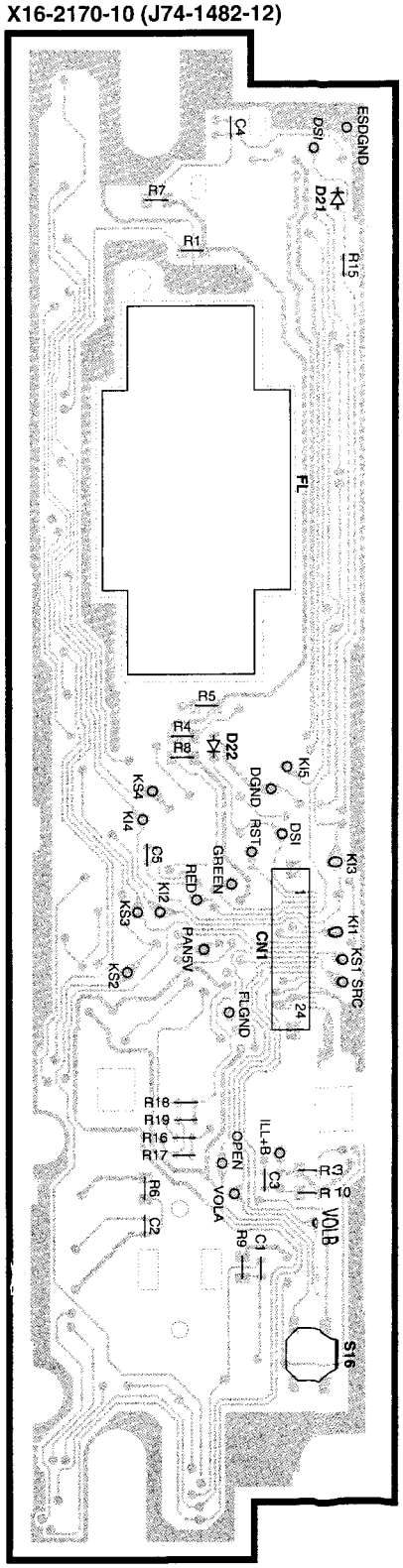
| IC | Q | Address | IC | Q | Address | IC | Q | Address |
|---|---|---|---|---|---|---|---|---|
| | 21 | 5O | | 31 | 4N | | 501 | 5O |
| | 22 | 5O | | 201 | 3M | | 502 | 6N |
| | 23 | 2O | | 202 | 3M | | 503 | 6O |
| | 27 | 3P | | 210 | 5P | | 601 | 3P |
| | 29 | 3P | | 303 | 3L | | 602 | 4Q |
| | 30 | 4N | | 304 | 3L | | 603 | 4N |



**SUB-CIRCUIT UNIT**
**X16-2120-10 (J74-1478-12)**



**SWITCH UNIT**
**X16-2170-10 (J74-1482-12)**



**X16-2120-10**

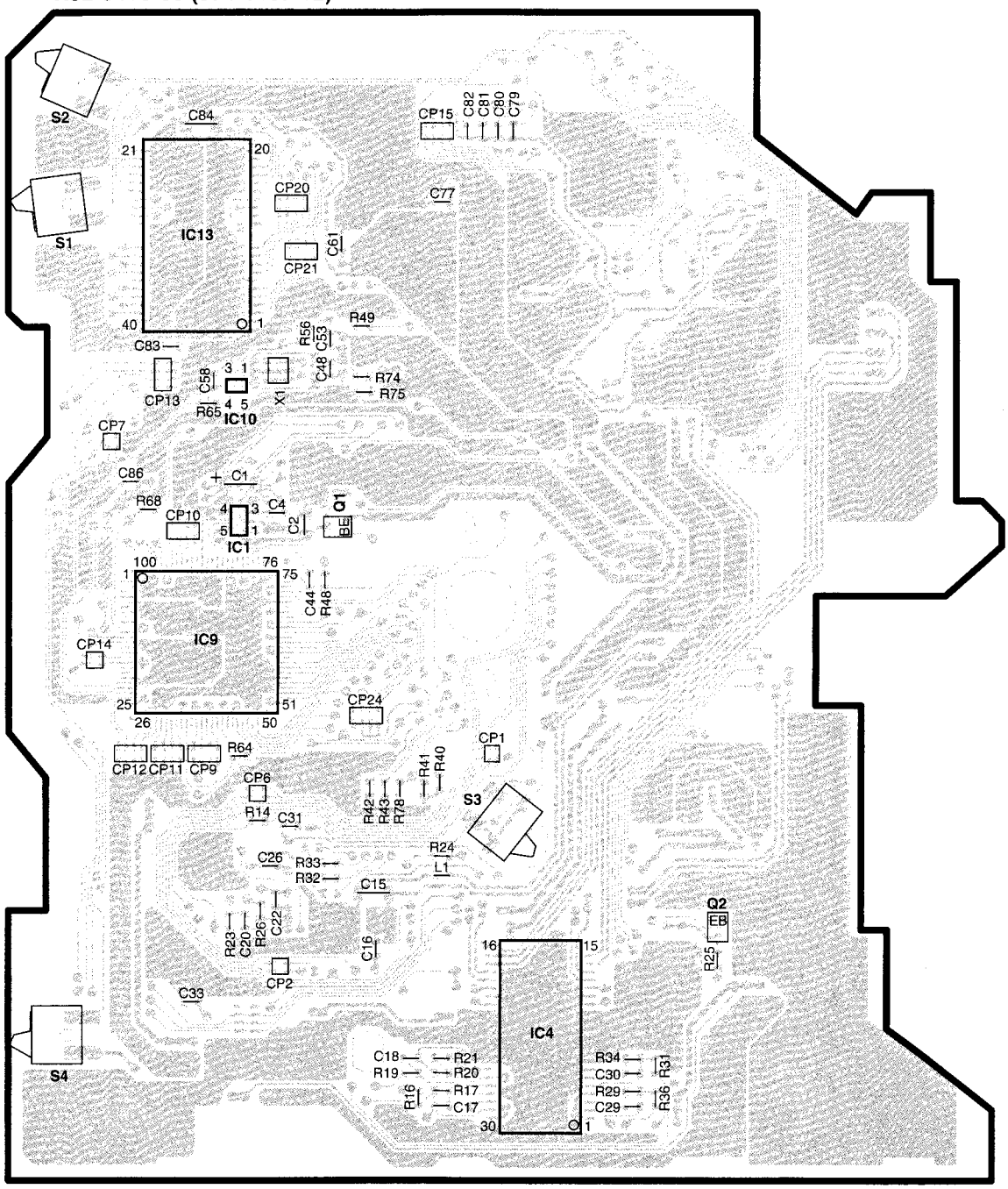
| IC | Q | Address |
|---|---|---|
| 1 | | 5R |
| 2 | | 2R |
| 4 | | 6R |
| 5 | | 3R |
| | 1 | 4R |
| | 2 | 4R |
| | 3 | 3R |
| | 4 | 2R |
| | 5 | 6R |

Refer to the schematic diagram for the values of resistors and capacitors.

# KDC-MP922/X869

## PC BOARD (COMPONENT SIDE VIEW)

**CD PLAYER UNIT**
**X32-5410-00 (J74-1487-12)**



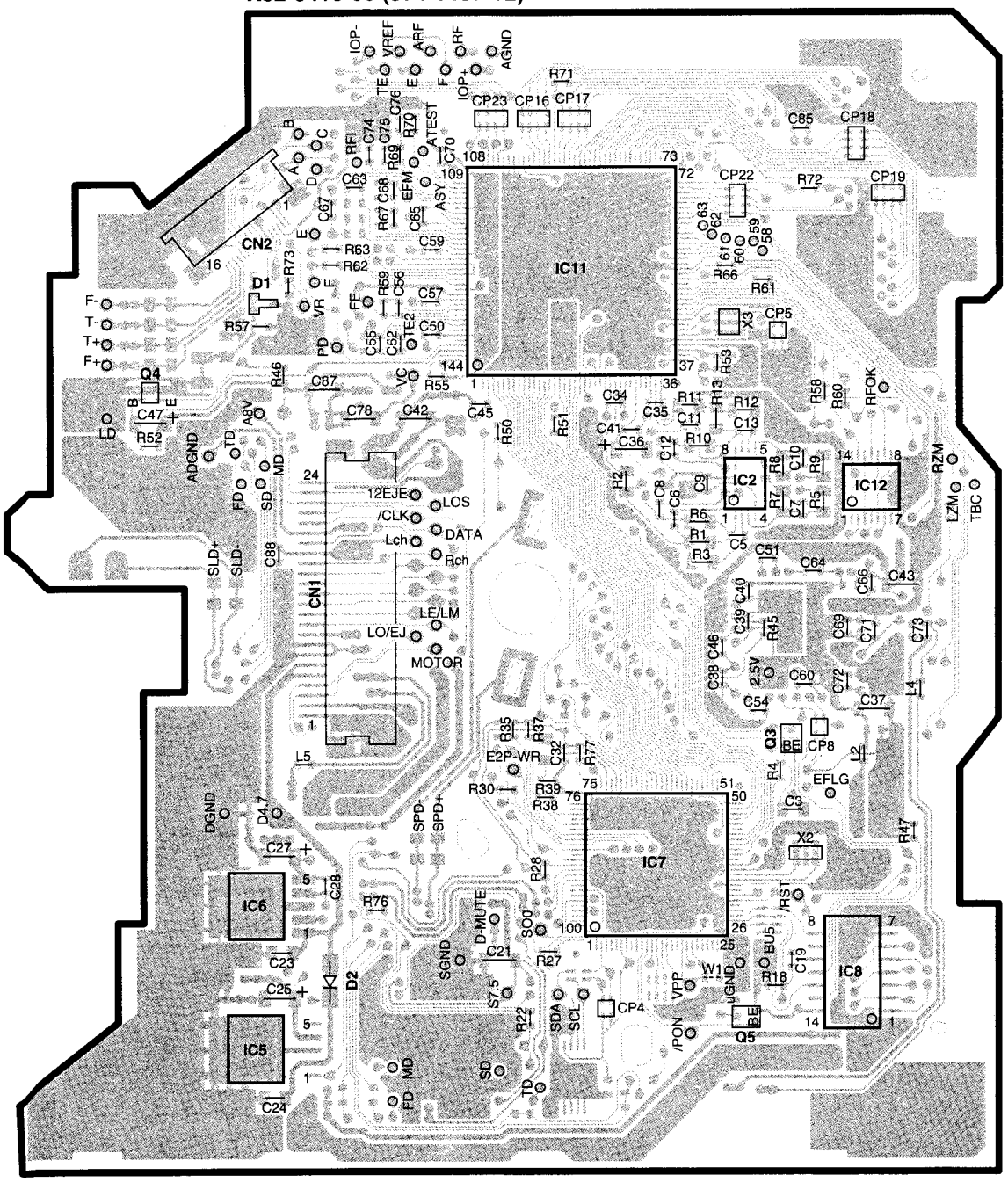

**X32-5410-00**

| IC | Q | Address |
|---|---|---|
| 1 | | 3V |
| 4 | | 5W |
| 13 | | 2V |
| | 1 | 3W |
| | 2 | 5X |

Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (FOIL SIDE VIEW)

**CD PLAYER UNIT**
**X32-5410-00 (J74-1487-12)**




**X32-5410-00**

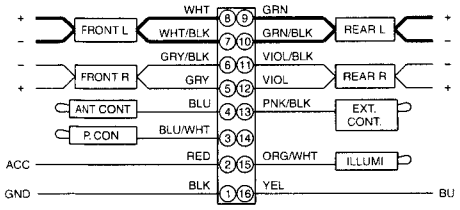
| IC | Q | Address | IC | Q | Address |
|---|---|---|---|---|---|
| 2 | | 3AC | 11 | | 2AB |
| 6 | | 5AA | | 3 | 4AC |
| 7 | | 5AB | | 4 | 3Z |
| 8 | | 5AC | | 5 | 5AC |

Refer to the schematic diagram for the values of resistors and capacitors.

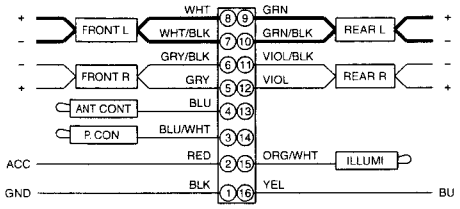
# KDC-MP922/X869

(X25-964X-XX)

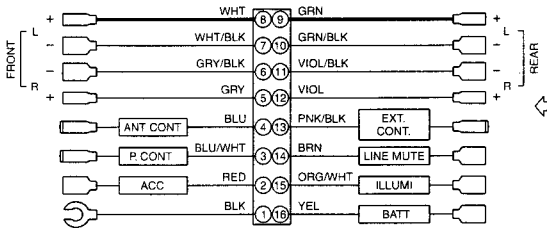
| MODEL NAME | UNIT No. | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | ⒻⒼⒽⓁ | Ⓘ | ⒿⓀ | Ⓜ | A1 (X86-373X-XX) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KDC-X969 | 0-10 | YES | YES | YES | YES | NO | YES | NO | YES | YES | 0-11 |
| KDC-X869 | 0-11 | YES | YES | YES | YES | NO | YES | NO | YES | YES | 0-11 |
| KDC-MP922 | 0-12 | YES | YES | YES | NO | NO | YES | NO | YES | YES | 0-11 |
| FX-9000 | 0-01 | YES | NO | YES | YES | YES | NO | NO | NO | YES | 0-01 |
| KDC-PSW9524 | 2-71 | YES | YES | NO | YES | YES | YES | YES | YES | NO | 2-70 |
| KDC-8024 | 2-72 | NO | NO | NO | YES | YES | NO | YES | YES | NO | 2-70 |
| KDC-9023R | 0-21 | YES | YES | NO | YES | YES | YES | NO | YES | YES | 2-70 |



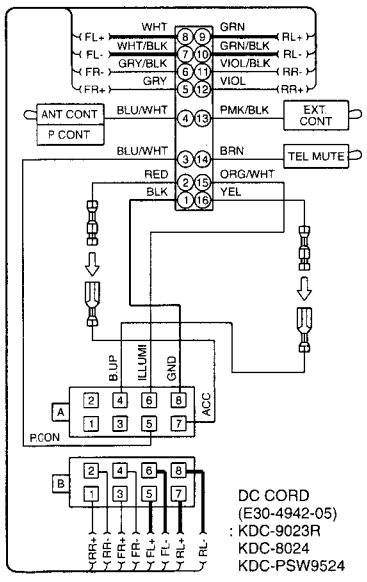

DC CORD
(E30-6062-05) : KDC-X969/869




DC CORD
(E30-6106-05) : KDC-MP922
KDC-V7022
KDC-722

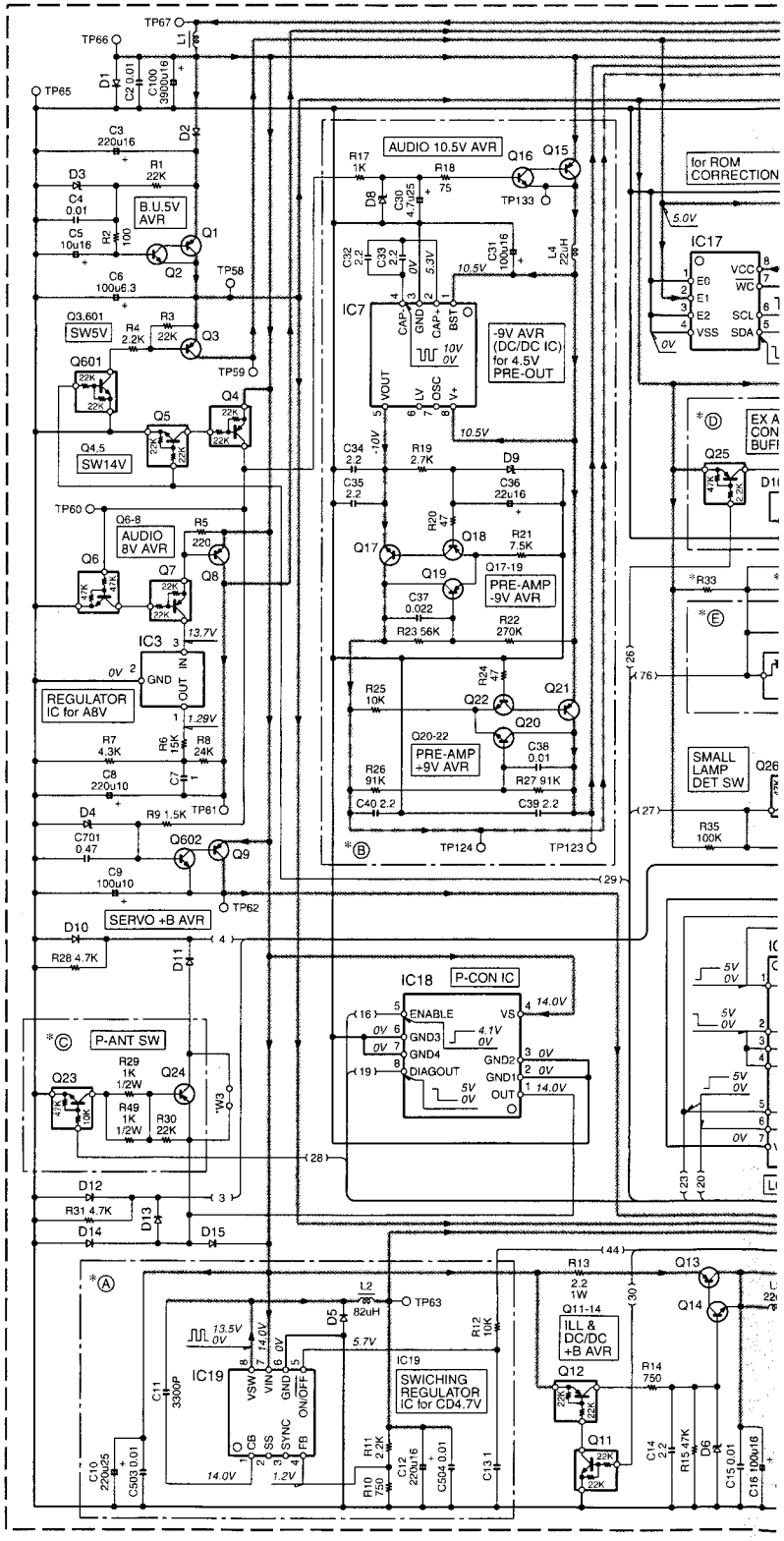



DC CORD
(E30-6061-05) : FX-9000




DC CORD
(E30-4942-05)
: KDC-9023R
KDC-8024
KDC-PSW9524

(X25-964X-XX)



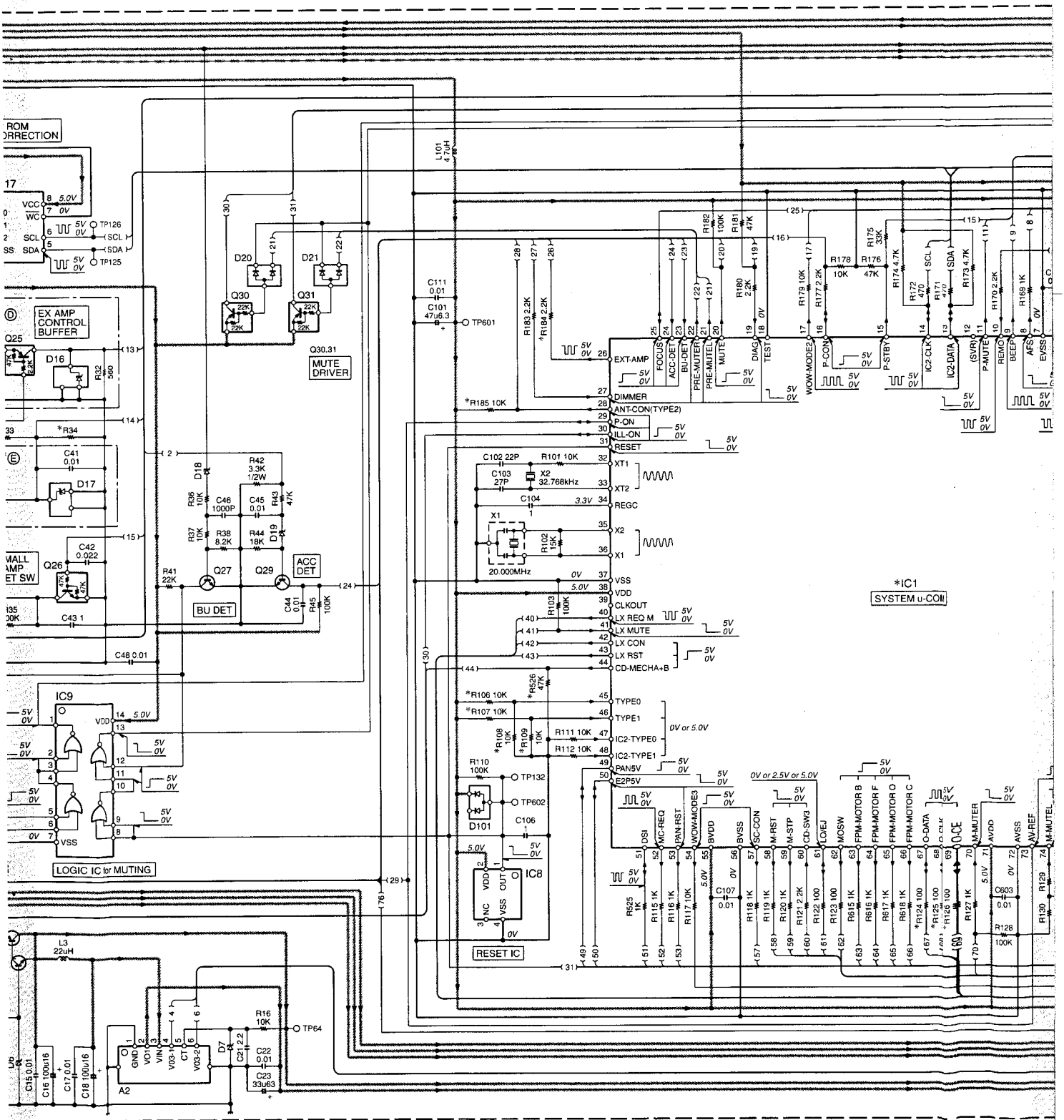

**CAUTION** : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units

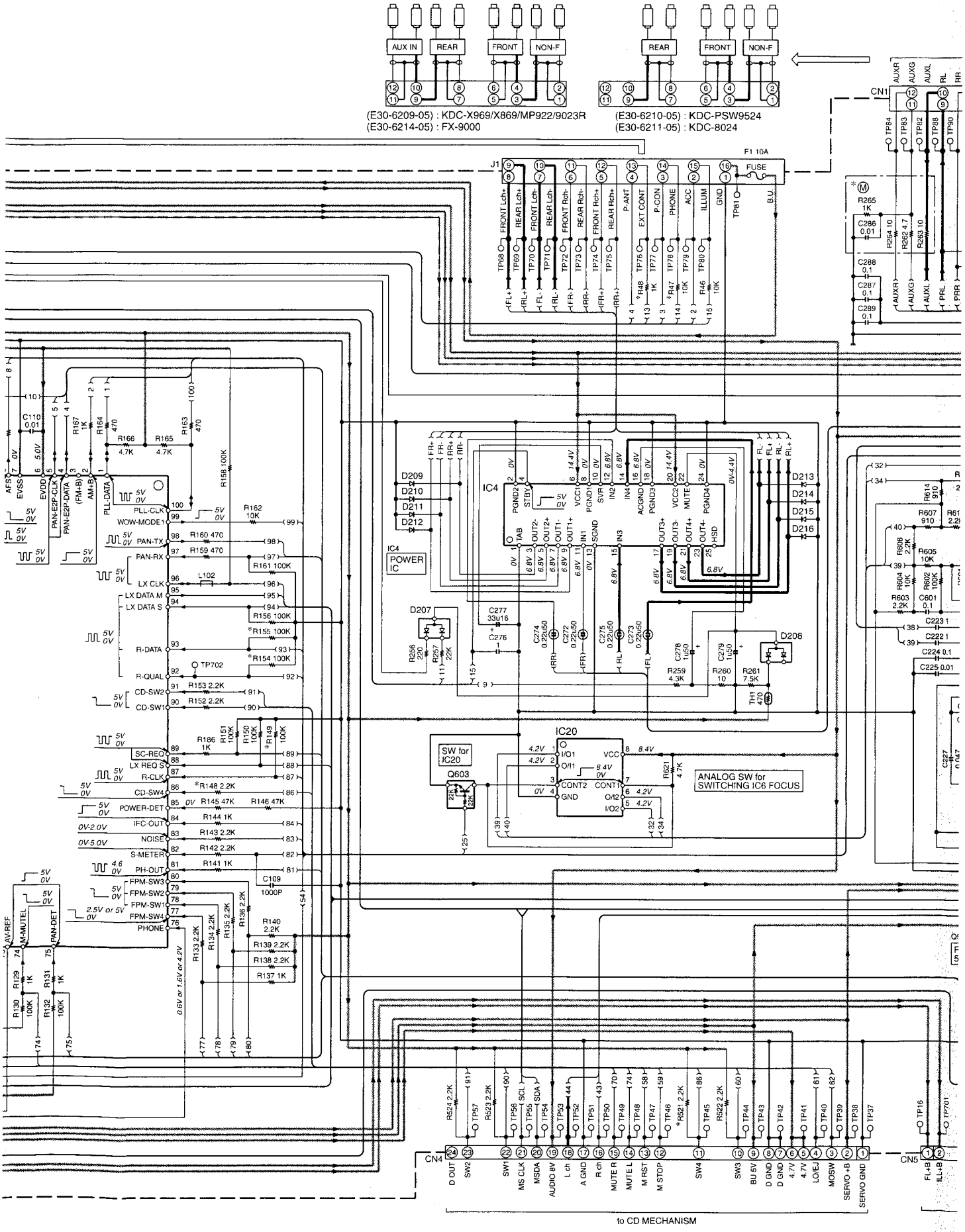
# KDC-MP922/X869

(X25-964X-XX)

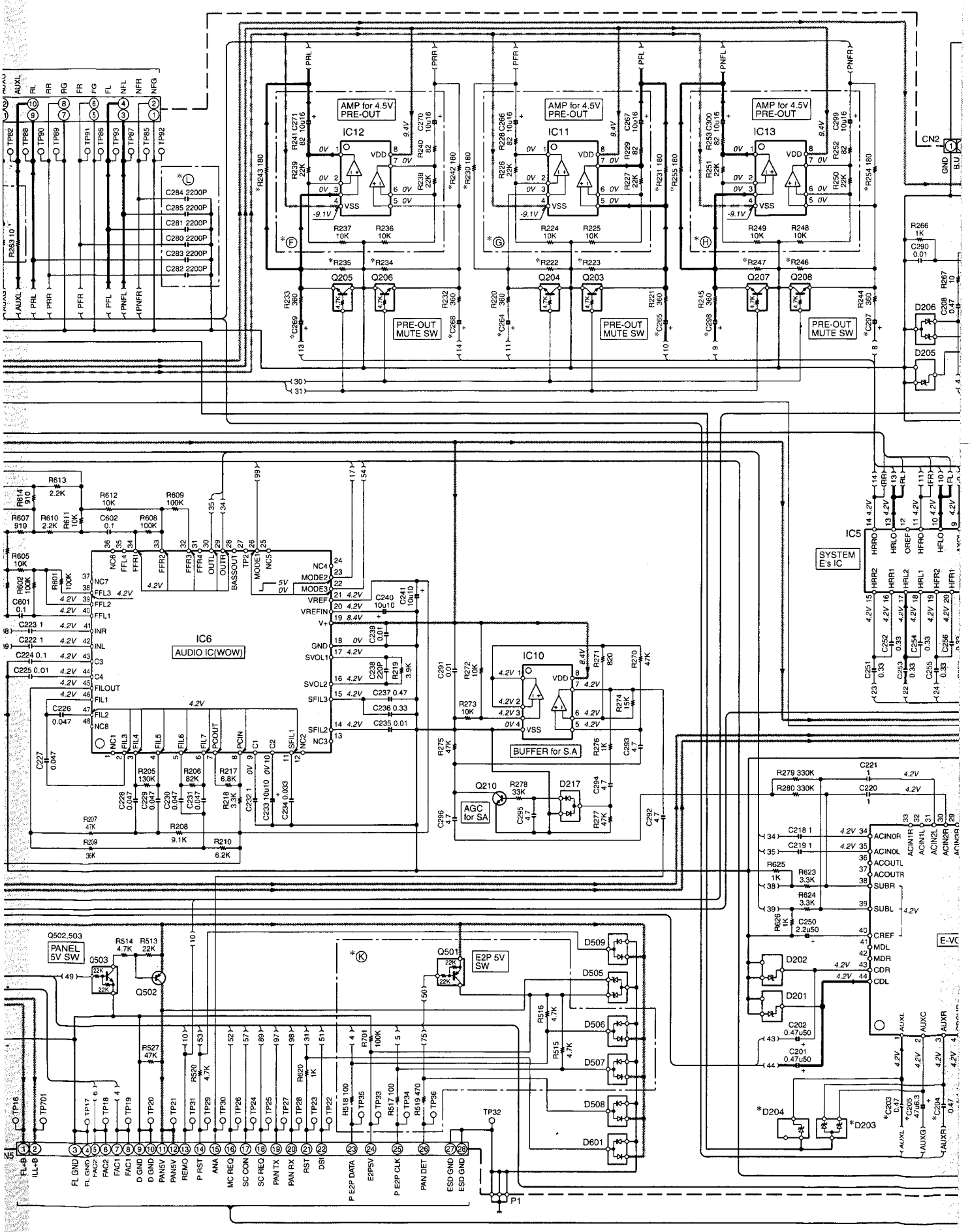
| MODEL NAME | UNIT No. | C203-205 | C264,265,268, 269,297,298 | C501 | C502 | C505 | D203, 204 | IC1 (703033BGCXXX) | R33 | R34 | R47 | R48, 184 | R106 | R107 | R108 | R109 | R124-126 | R148,149, 154,155,521 | R185 | R222,223,234, 235,246,247 | R230,231,242, 243,254,255 | R526 | W3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KDC-X969 | 0-10 | YES | 22u16 | NO | YES | NO | YES | 020 | NO | 100K | NO | YES | NO | NO | YES | YES | NO | NO | NO | 2.2K | NO | YES | NO |
| KDC-X869 | 0-11 | YES | 22u16 | NO | YES | NO | YES | 020 | NO | 100K | NO | YES | YES | YES | NO | NO | NO | NO | NO | 2.2K | NO | YES | NO |
| KDC-MP922 | 0-12 | YES | 22u16 | NO | YES | NO | YES | 020 | NO | 100K | NO | NO | YES | NO | NO | YES | NO | NO | NO | 2.2K | NO | YES | NO |
| FX-9000 | 0-01 | YES | 10u16 | NO | NO | YES | YES | 020 | 100K | 47K | YES | YES | NO | YES | YES | NO | NO | YES | NO | 22K | YES | YES | NO |
| KDC-PSW9524 | 2-71 | NO | 22u16 | YES | YES | NO | NO | 020 | 47K | 22K | YES | YES | NO | NO | YES | YES | YES | NO | YES | 2.2K | NO | YES | YES |
| KDC-8024 | 2-72 | NO | 10u16 | YES | YES | NO | NO | 021 | 47K | 22K | YES | YES | NO | NO | NO | NO | YES | NO | NO | 22K | YES | NO | YES |
| KDC-9023R | 0-21 | YES | 22u16 | YES | YES | NO | YES | 020 | 47K | 22K | YES | YES | YES | NO | NO | YES | NO | NO | YES | 2.2K | NO | YES | YES |



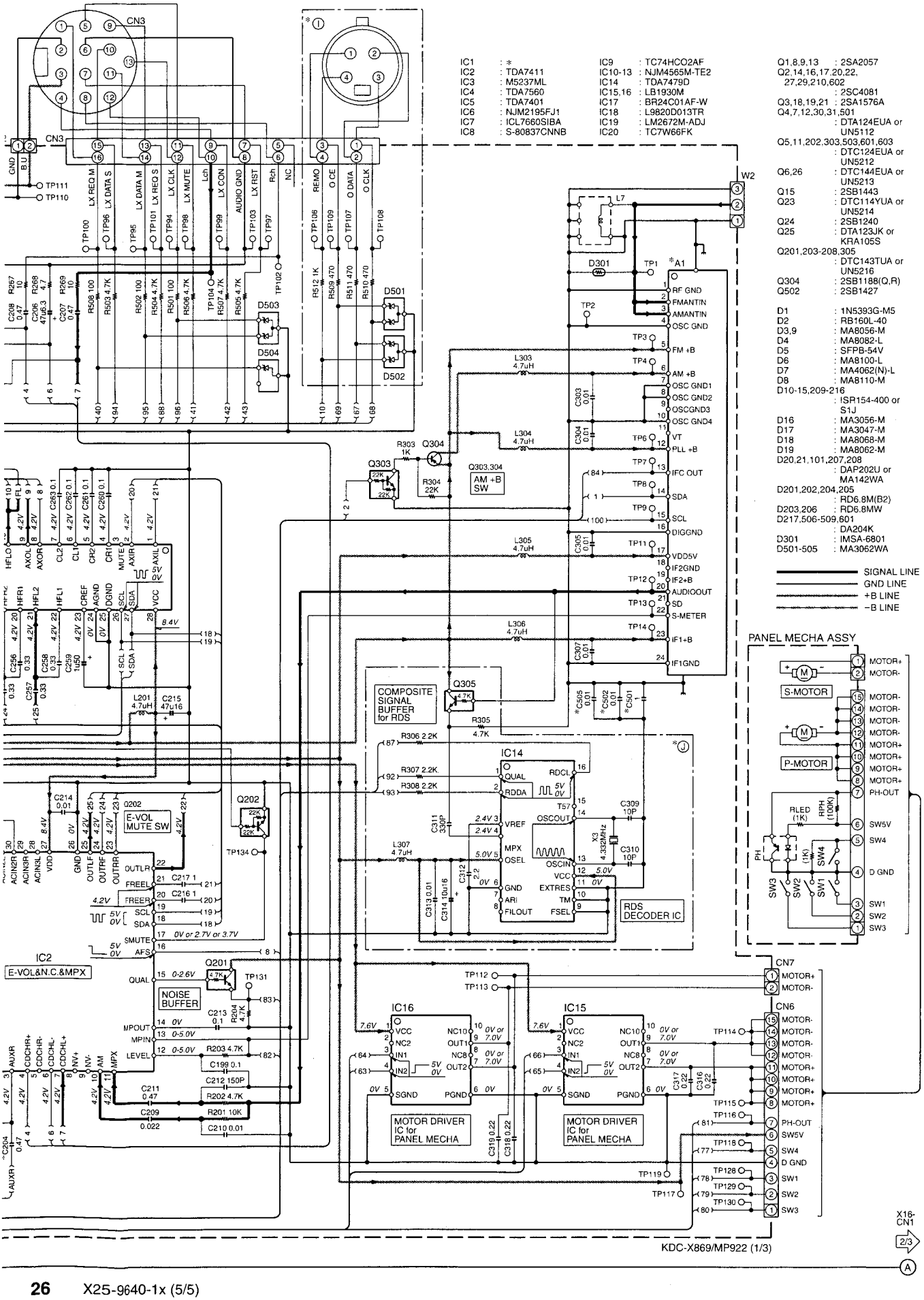
# KDC-MP922/X869

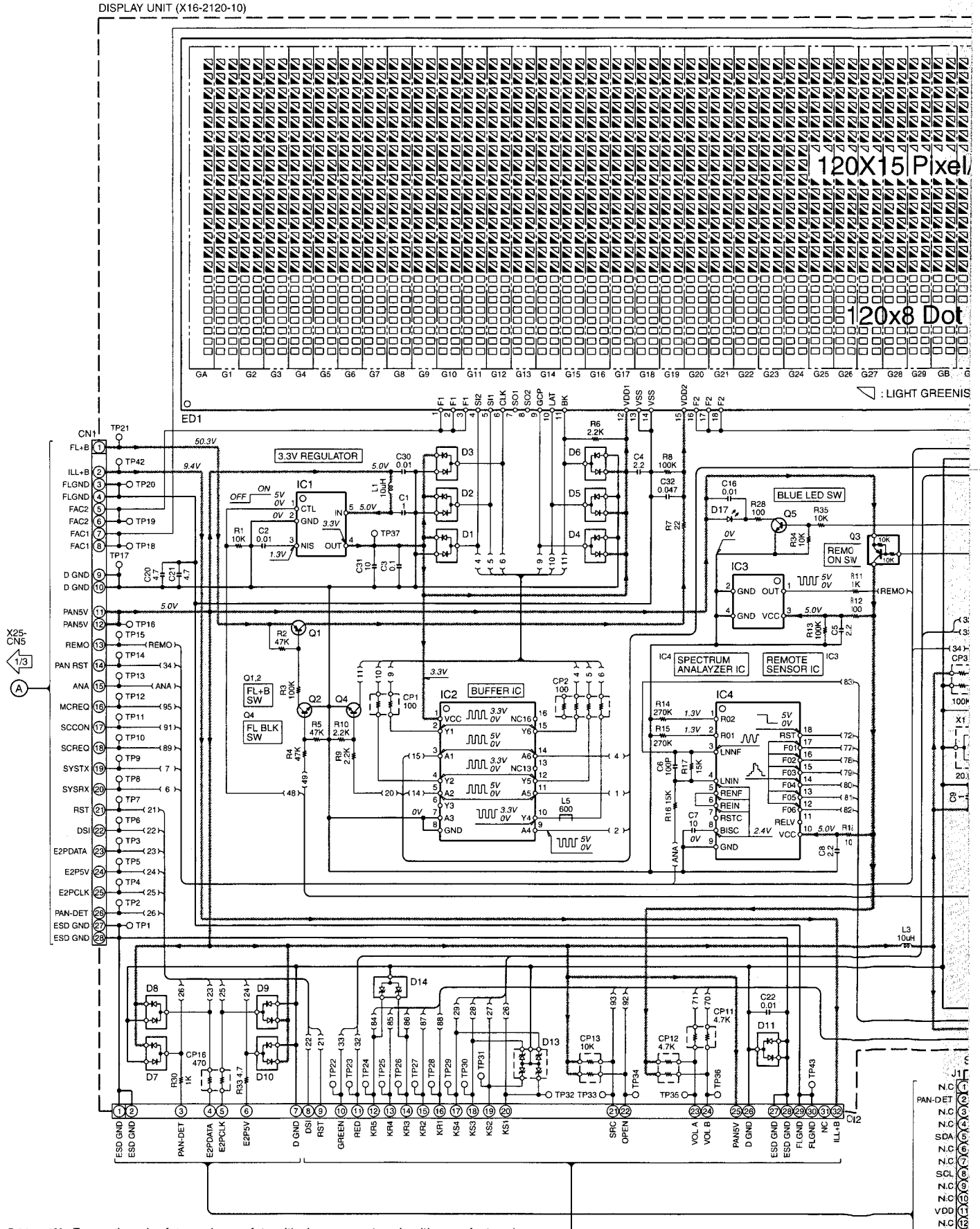


# KDC-MP922/X869



# KDC-MP922/X869



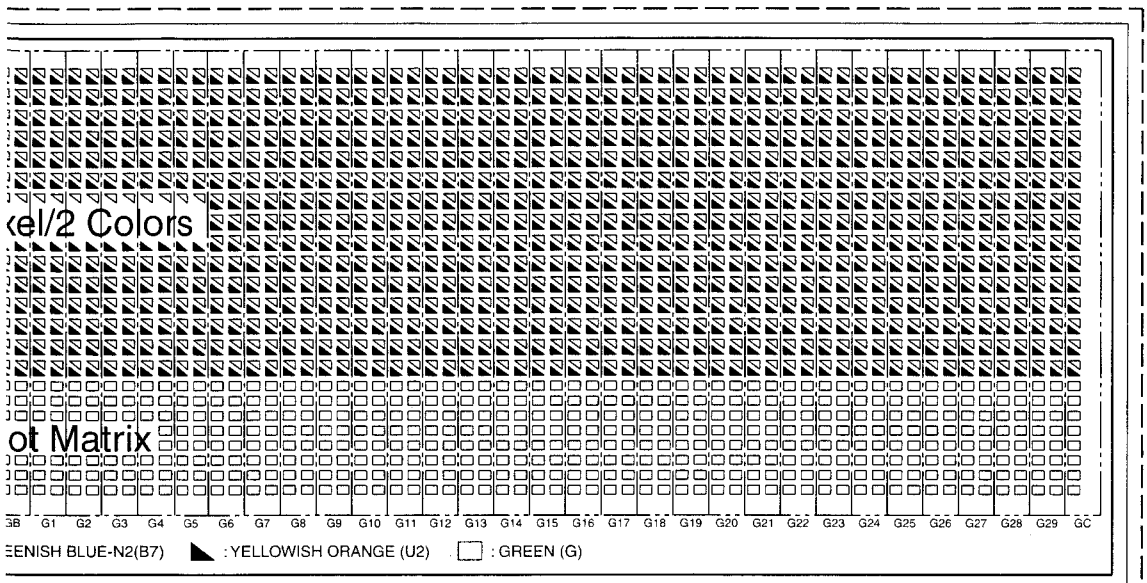


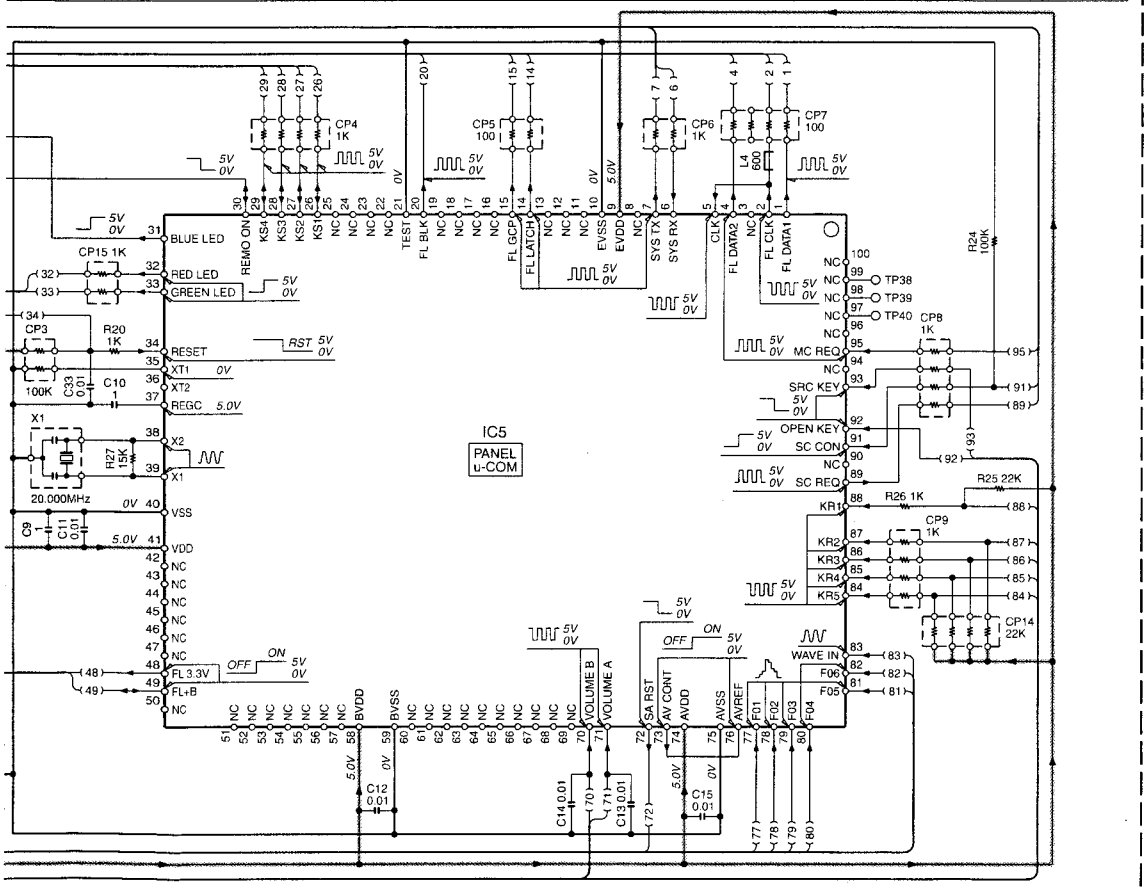

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

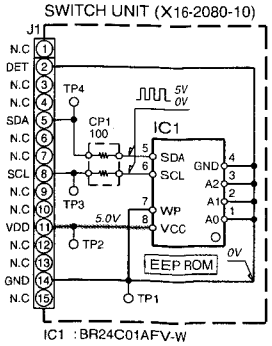
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# KDC-MP922/X869


el/2 Colors
ot Matrix
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12 G13 G14 G15 G16 G17 G18 G19 G20 G21 G22 G23 G24 G25 G26 G27 G28 G29 GC
ENISH BLUE-N2(B7)
: YELLOWISH ORANGE (U2)
: GREEN (G)




SWITCH UNIT (X16-2080-10)




IC1 : BR24C01AFV-W

GND LINE
+B LINE

| | | |
|---|---|---|
| IC1 | : | TAR5S33 |
| IC2 | : | TC74HC4050AFT |
| IC3 | : | RS-171 |
| IC4 | : | BA3830F |
| IC5 | : | 703032BGFA01 |
| Q1 | : | 2SA1163 |
| Q2 | : | 2SC2713 |
| Q3 | : | DTA114EUA or UN5111 |
| Q4,5 | : | 2SC4081 |
| D1-11 | : | DA204U |
| D13 | : | FTZ6.8E |
| D14 | : | MA3062WA |
| D17 | : | B30-1564-05 |

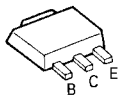
KDC-X869/MP922 (2/3)

X16-CN1 3/3

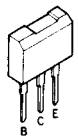
B

DTA123JK
DTC114YUA
DTC143TUA
UN5111
UN5213
UN5214
UN5216
2SA1163
2SA1576A
2SC2713

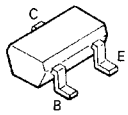
2SB1188



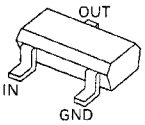

2SB1443



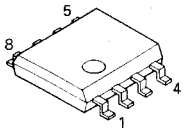

2SC4081




DTA114EUA
DTA124EUA
DTA143EUA
DTC124EUA
DTC144EUA



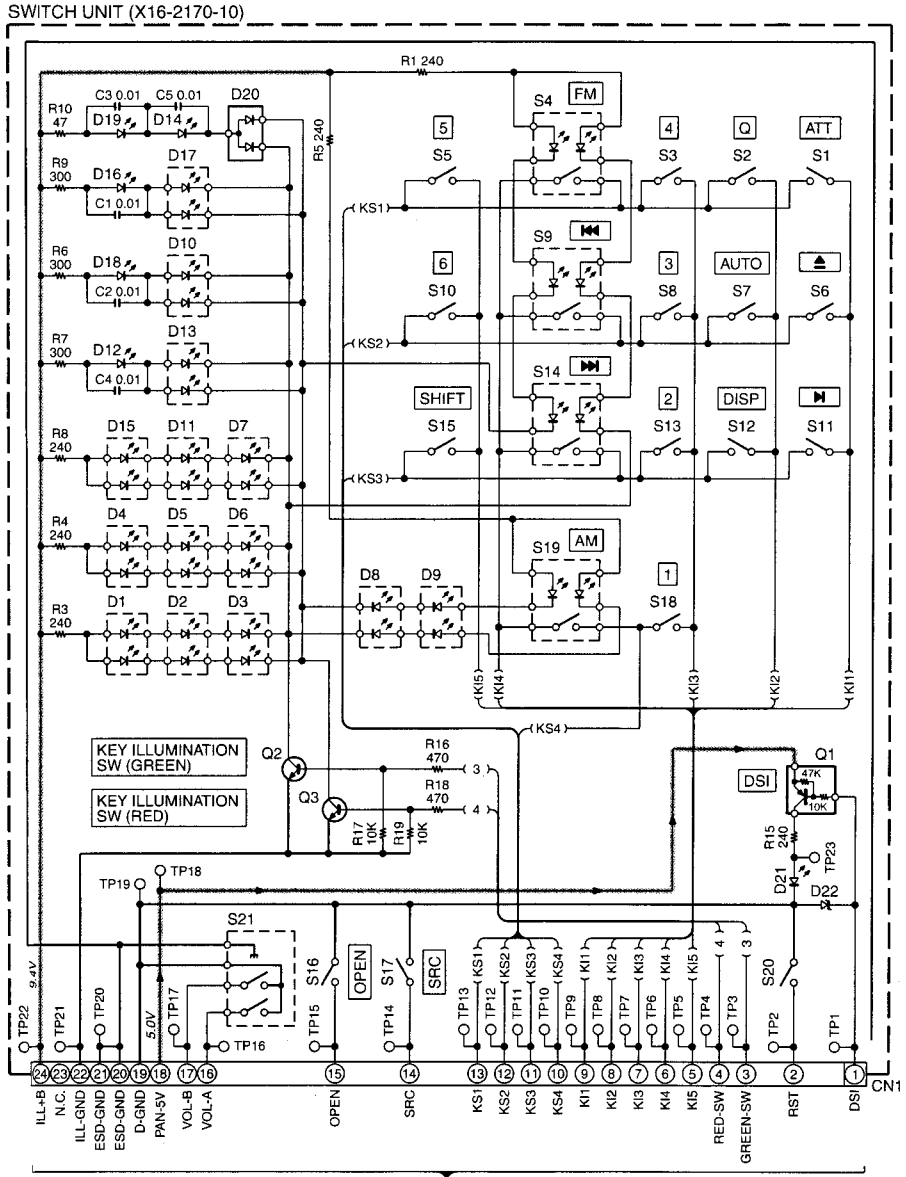

NJM4565M-TE2




DAP202U
DA204K
DA204U
DTA114YUA

MA142WA
UN5212

SWITCH UNIT (X16-2170-10)




X16-CN2 2/3 B

GND LINE
+B LINE

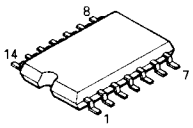
Q1 : DTA114YUA
Q2,3 : 2SC4081

D1-11,13,15,17 : B30-1605-05
D12,14,16,18,19 : B30-1564-05
D20 : DAP202U or MA142WA
D21 : B30-1566-05
D22 : MA8068-M

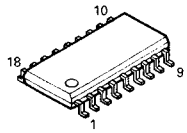
KDC-X869 (3/3)
KDC-MP922 (3/3)

RD6.8M

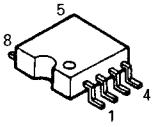
TC74HCT7007AF
TC74HC02AF



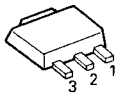
BA3830F



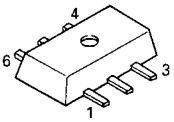
BR24C01AF-W



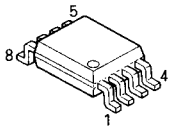
M5237ML



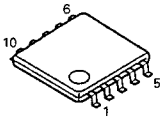
MCH6101



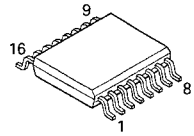
NJM4580V



LB1930M



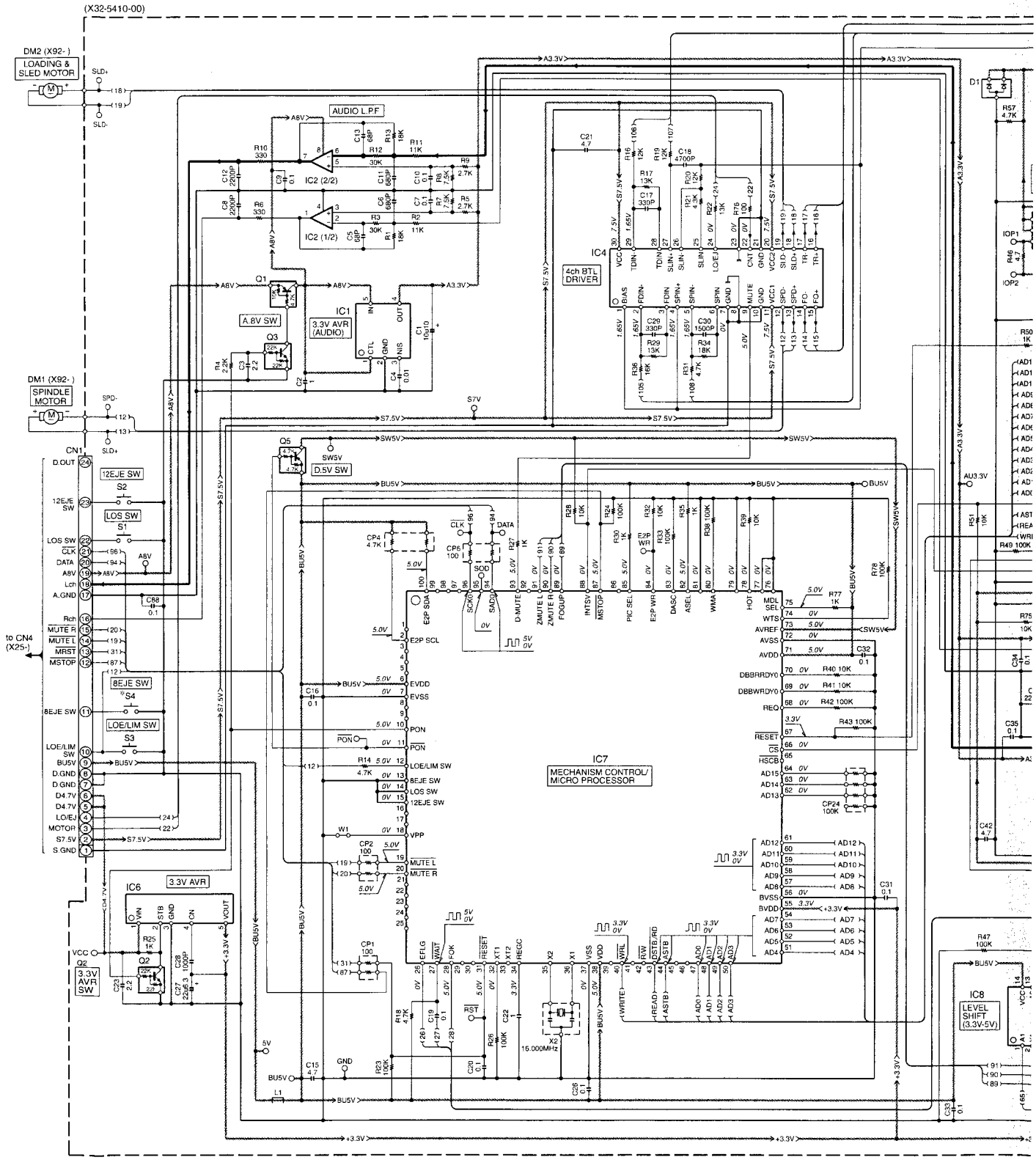
TC74HC4050AFT
TDA7479D

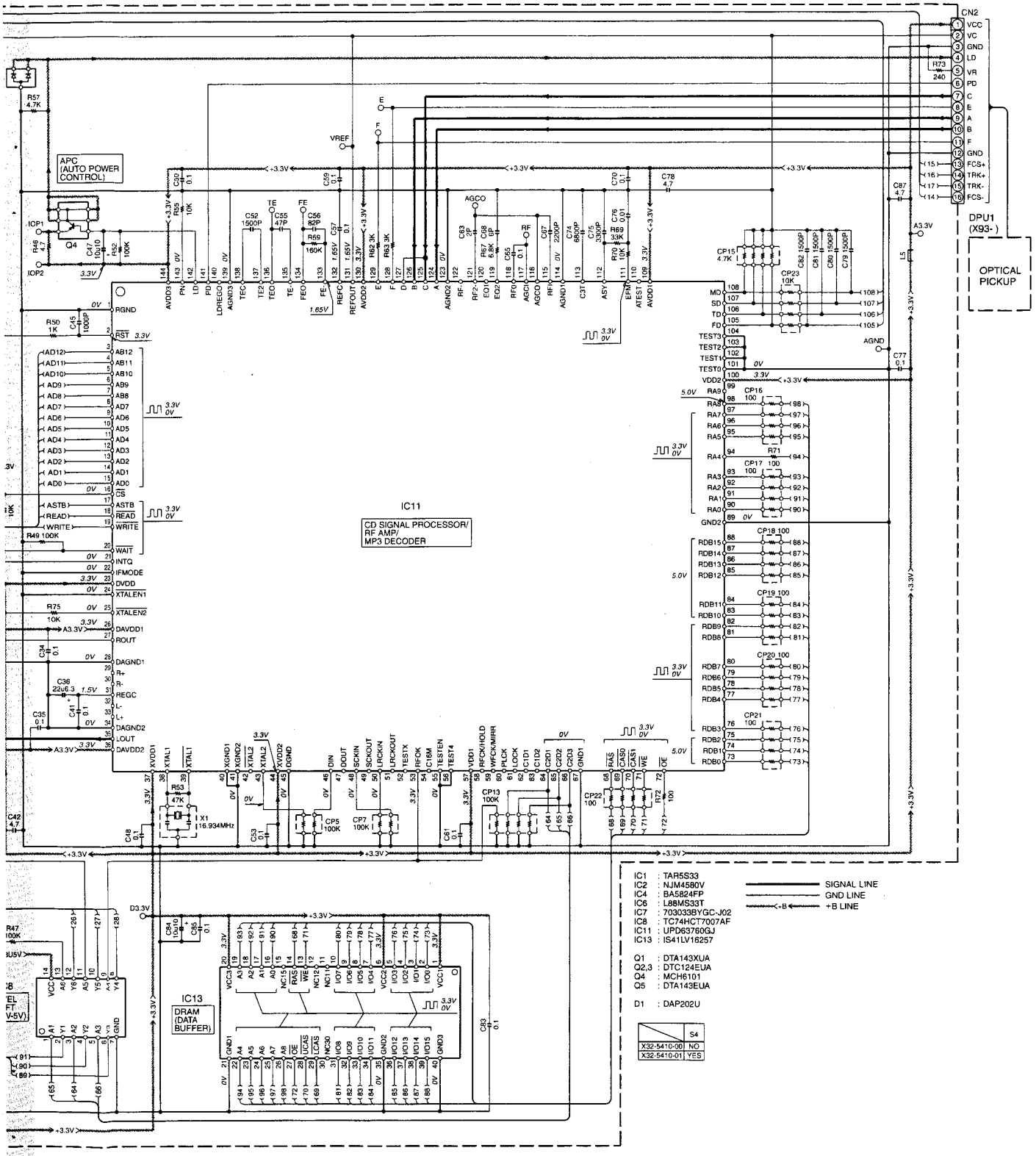


**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# KDC-MP922/X869



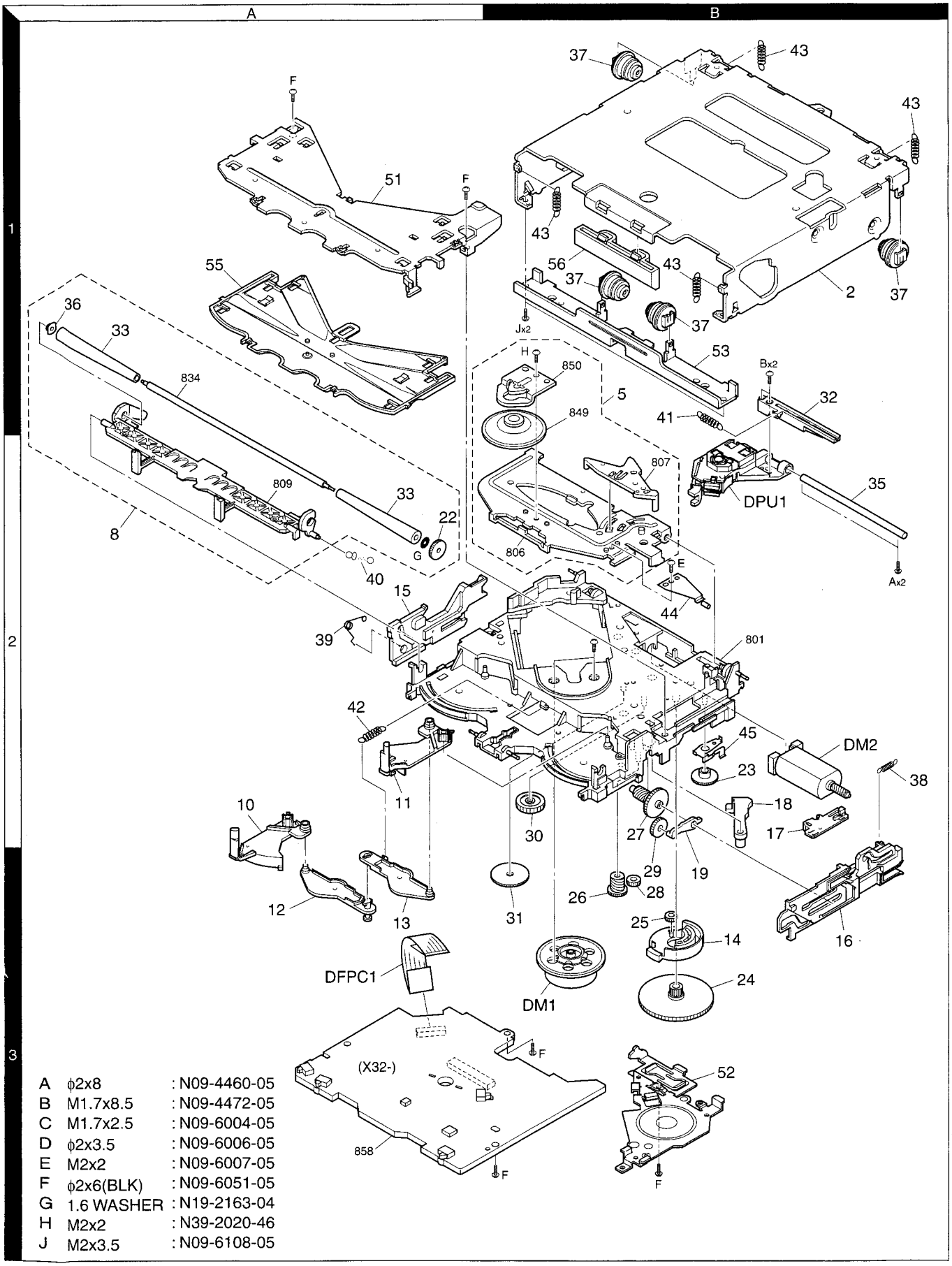



**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# KDC-MP922/X869

## EXPLODED VIEW (MECHANISM)



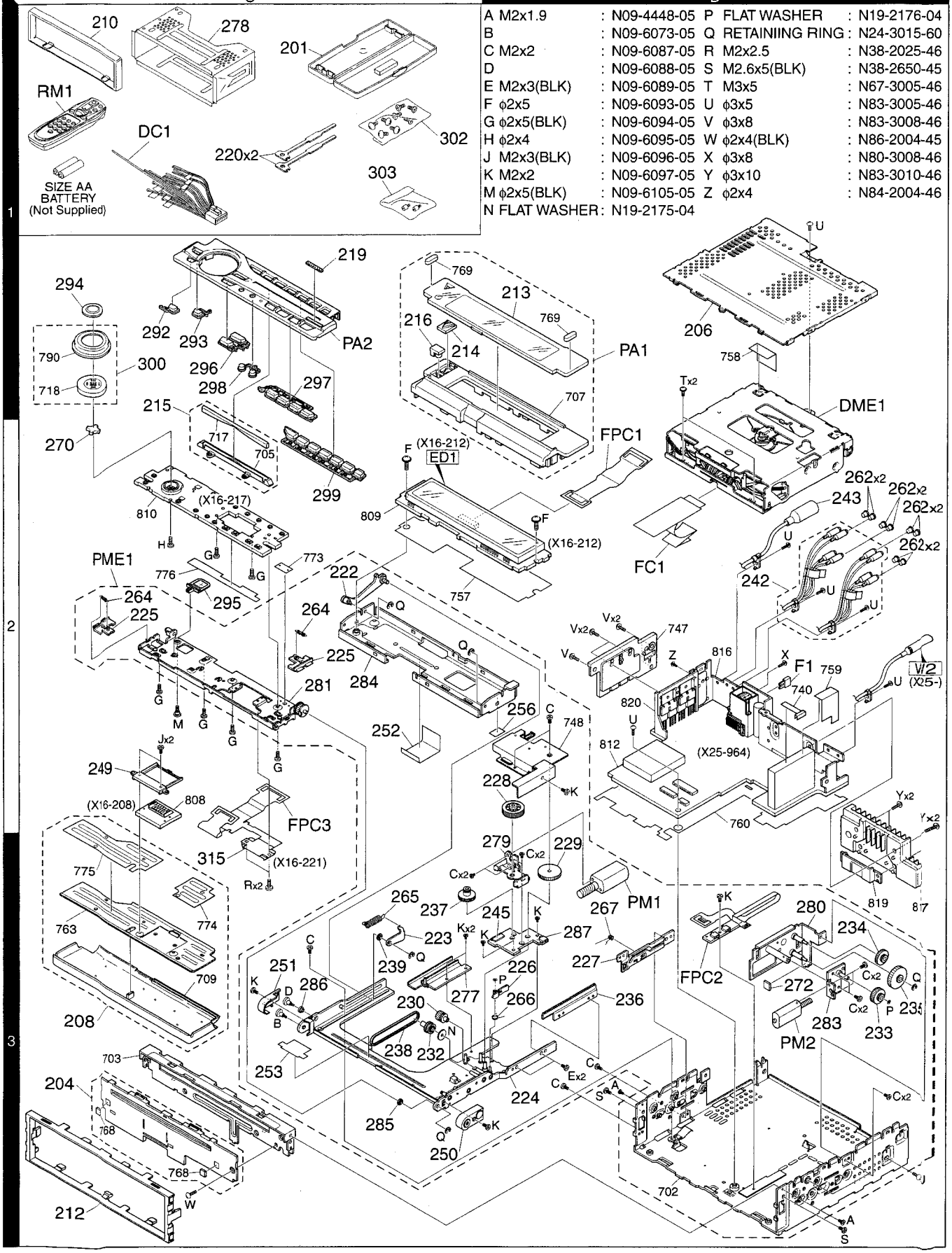

| | | |
|---|---|---|
| A | ϕ2x8 | : N09-4460-05 |
| B | M1.7x8.5 | : N09-4472-05 |
| C | M1.7x2.5 | : N09-6004-05 |
| D | ϕ2x3.5 | : N09-6006-05 |
| E | M2x2 | : N09-6007-05 |
| F | ϕ2x6(BLK) | : N09-6051-05 |
| G | 1.6 WASHER | : N19-2163-04 |
| H | M2x2 | : N39-2020-46 |
| J | M2x3.5 | : N09-6108-05 |



**Parts with the exploded numbers larger than 700 are not supplied.**

# EXPLODED VIEW (UNIT)

| D | | | | | |
|---|---|---|---|---|---|
| A M2x1.9 | : N09-4448-05 | P | FLAT WASHER | : N19-2176-04 |
| B | : N09-6073-05 | Q | RETAINIING RING | : N24-3015-60 |
| C M2x2 | : N09-6087-05 | R | M2x2.5 | : N38-2025-46 |
| D | : N09-6088-05 | S | M2.6x5(BLK) | : N38-2650-45 |
| E M2x3(BLK) | : N09-6089-05 | T | M3x5 | : N67-3005-46 |
| F ϕ2x5 | : N09-6093-05 | U | ϕ3x5 | : N83-3005-46 |
| G ϕ2x5(BLK) | : N09-6094-05 | V | ϕ3x8 | : N83-3008-46 |
| H ϕ2x4 | : N09-6095-05 | W | ϕ2x4(BLK) | : N86-2004-45 |
| J M2x3(BLK) | : N09-6096-05 | X | ϕ3x8 | : N80-3008-46 |
| K M2x2 | : N09-6097-05 | Y | ϕ3x10 | : N83-3010-46 |
| M ϕ2x5(BLK) | : N09-6105-05 | Z | ϕ2x4 | : N84-2004-46 |
| N FLAT WASHER | : N19-2175-04 | | | |




**Parts with the exploded numbers larger than 700 are not supplied.**

# KDC-MP922/X869

## PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| **KDC-MP922/X869** | | | | | |
| 201 | 1C | * | A02-2731-03 | PLASTIC CABINET ASSY | |
| 204 | 3C | * | A22-2988-03 | SUB PANEL ASSY | |
| 206 | 1D | * | A52-0831-02 | TOP PLATE | |
| PA1 | 1D | * | A64-2976-01 | PANEL ASSY | K1 |
| PA1 | 1D | * | A64-2977-01 | PANEL ASSY | K2 |
| PA2 | 1C | * | A64-2993-02 | PANEL ASSY | K1 |
| PA2 | 1C | * | A64-2994-02 | PANEL ASSY | K2 |
| PME1 | 2C | * | A10-5029-11 | CHASSIS ASSY | |
| RM1 | 1C | | A70-2040-05 | REMOTE CONTROLLER ASSY (RC-505) | |
| - | | | B46-0100-50 | WARRANTY CARD | |
| - | | | B46-0606-04 | ID CARD | |
| - | | * | B46-0648-13 | USER CARD | K1 |
| - | | * | B46-0653-03 | USER CARD | |
| - | | * | B64-2458-00 | INSTRUCTION MANUAL (ENGLISH) | |
| - | | * | B64-2459-00 | INSTRUCTION MANUAL (FRE.SPA.) | |
| 208 | 3C | * | B03-5015-03 | DRESSING PLATE ASSY | K2 |
| 208 | 3C | * | B03-5016-03 | DRESSING PLATE ASSY | K1 |
| 210 | 1C | * | B07-3078-01 | ESCUTCHEON | K2 |
| 210 | 1C | * | B07-3079-01 | ESCUTCHEON | K1 |
| 212 | 3C | * | B07-3080-02 | ESCUTCHEON | |
| 213 | 1D | * | B10-4383-01 | FRONT GLASS | K1 |
| 213 | 1D | * | B10-4384-01 | FRONT GLASS | K2 |
| 214 | 1C | * | B12-1221-04 | INDICATOR | |
| 215 | 1C | * | B12-1222-03 | INDICATOR ASSY | |
| 216 | 1C | * | B19-2201-04 | LIGHTING BOARD | |
| 219 | 1C | * | B43-1505-04 | KENWOOD BADGE | |
| 220 | 1C | | D10-4674-04 | LEVER | |
| 222 | 2C | * | D10-4716-04 | ARM ASSY | |
| 223 | 3C | * | D10-4718-04 | ARM ASSY | |
| 224 | 3D | * | D10-4721-11 | SLIDER ASSY | |
| 225 | 2C | * | D10-4749-03 | LEVER | |
| 226 | 3D | * | D10-4750-04 | LEVER | |
| 227 | 3D | * | D12-0637-03 | CAM | |
| 228 | 2D | * | D13-2270-04 | GEAR | |
| 229 | 3D | * | D13-2272-04 | GEAR | |
| 230 | 3C | * | D13-2273-14 | GEAR | |
| 232 | 3C | * | D13-2274-14 | GEAR | |
| 233 | 3D | * | D13-2276-04 | GEAR | |
| 234 | 3D | * | D13-2277-04 | GEAR | |
| 235 | 3D | * | D13-2278-04 | GEAR | |
| 236 | 3D | * | D13-2289-03 | RACK (GEAR) | |
| 237 | 3C | * | D13-2290-04 | GEAR ASSY | |
| 238 | 3C | * | D16-0617-05 | BELT | |
| 239 | 3C | * | D23-0958-04 | RETAINER | |
| 242 | 2D | * | E30-6209-05 | CORD WITH PINPLUG (3PR+1AUX) | |
| 243 | 2D | * | E30-6216-05 | CORD WITH DIN CONNECTOR (CH) | |
| 245 | 3D | * | E41-0351-05 | FLAT CABLE CONNECTOR | |
| ⚠ DC1 | 1C | | E30-6062-05 | DC CORD | K1 |
| ⚠ DC1 | 1C | | E30-6106-05 | DC CORD | K2 |
| FC1 | 2D | * | E39-0565-05 | FLAT CABLE | |
| 249 | 2C | * | F07-1121-03 | COVER | |
| 250 | 3C | * | F07-1122-03 | COVER | |
| 251 | 3C | * | F07-1123-03 | COVER | |
| 252 | 2C | * | F09-1794-04 | SHEET | |
| 253 | 3C | * | F09-1798-04 | SHEET | |
| 256 | 2D | * | F09-1842-04 | SHEET | |
| 262 | 2D | | F29-0049-05 | INSULATING COVER | |
| ⚠ 999 | | | F52-0011-05 | FUSE (MINI BLADE TYPE) | |
| ⚠ F1 | 2D | | F52-0006-05 | FUSE (MINI BLADE TYPE) | |
| 264 | 2C | * | G01-3162-04 | EXTENSION SPRING | |
| 265 | 3C | * | G01-3188-04 | EXTENSION SPRING | |
| 266 | 3C | * | G01-3189-04 | TORSION COIL SPRING | |
| 267 | 3D | * | G01-3199-04 | TORSION COIL SPRING | |
| 270 | 2C | * | G11-3539-04 | CUSHION (VOL) | |
| 272 | 3D | * | G11-3559-04 | CUSHION | |
| - | | * | H10-4854-12 | POLYSTYRENE FOAMED FIXTURE | |
| - | | * | H21-1151-04 | PROTECTION SHEET | |
| - | | | H25-0329-04 | PROTECTION BAG (280X450X0.03) | |
| - | | | H25-0337-04 | PROTECTION BAG (180X300X0.03) | |
| - | | * | H54-2716-03 | ITEM CARTON CASE | K1 |
| - | | * | H54-2717-03 | ITEM CARTON CASE | K2 |
| 277 | 3C | * | J19-5220-03 | HOLDER | |
| 278 | 1C | | J21-9823-03 | MOUNTING HARDWARE ASSY | |
| 279 | 3D | * | J21-9951-03 | MOUNTING HARDWARE ASSY | |
| 280 | 3D | * | J21-9954-02 | MOUNTING HARDWARE ASSY | |
| 281 | 2C | * | J21-9956-12 | MOUNTING HARDWARE ASSY | |
| 283 | 3D | * | J21-9997-03 | MOUNTING HARDWARE ASSY | |
| 284 | 2C | * | J21-9999-02 | MOUNTING HARDWARE ASSY | |
| 285 | 3C | * | J31-1055-04 | COLLAR | |
| 286 | 3C | * | J31-1056-04 | COLLAR | |
| 287 | 3D | * | J74-1444-04 | RIGID PRINTED WIRING BOARD | |
| FPC1 | 2D | * | J84-0153-05 | FLEXIBLE PRINTED WIRING BOARD | |
| FPC2 | 3D | * | J84-0156-04 | FLEXIBLE PRINTED WIRING BOARD | |
| 292 | 1C | * | K24-4004-04 | KNOB (PLAY) | |
| 293 | 1C | * | K24-4005-04 | KNOB (EJECT) | |
| 294 | 1C | * | K24-4006-04 | KNOB (ATT) | |
| 295 | 2C | * | K24-4007-04 | KNOB (OPEN) | |
| 296 | 1C | * | K25-1527-03 | KNOB (SRC,Q) | |
| 297 | 1C | * | K25-1529-03 | KNOB (AM/FM) | |
| 298 | 1C | * | K25-1530-04 | KNOB (SCRL) | |
| 299 | 2C | * | K25-1528-03 | KNOB (1-6) | K2 |
| 299 | 2C | * | K25-1532-03 | KNOB (1-6) | K1 |
| 300 | 1C | * | K29-7031-03 | KNOB ASSY (VOL) | |
| 302 | 1C | | N99-1723-05 | SCREW SET | |
| 303 | 1C | * | N99-1734-05 | SCREW SET | |
| A | 3D | | N09-4448-05 | MACHINE SCREW | |
| B | 3C | * | N09-6073-05 | STEPPED SCREW | |
| C | 3D | * | N09-6087-05 | MACHINE SCREW | |
| D | 3C | * | N09-6088-05 | STEPPED SCREW | |
| E | 3D | * | N09-6089-05 | MACHINE SCREW | |
| F | 2C | * | N09-6093-05 | TAPTITE SCREW | |
| G | 2C | * | N09-6094-05 | MACHINE SCREW | |
| H | 2C | * | N09-6095-05 | MACHINE SCREW | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

**KDC-MP922/X869**

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| J | 2C | * | N09-6096-05 | MACHINE SCREW | |
| K | 3C | * | N09-6097-05 | MACHINE SCREW | |
| M | 2C | * | N09-6105-05 | STEPPED SCREW | |
| N | 2C | * | N19-2175-04 | FLAT WASHER | |
| P | 3D | * | N19-2176-04 | FLAT WASHER | |
| Q | 2C | | N24-3015-60 | E TYPE RETAINING RING | |
| R | 3C | | N38-2025-46 | PAN HEAD MACHIN SCREW | |
| S | 3D | * | N38-2650-45 | PAN HEAD MACHIN SCREW | |
| T | 2D | | N67-3005-46 | PAN HEAD SEMS SCREW | |
| U | 2D | | N83-3005-46 | PAN HEAD TAPTITE SCREW | |
| V | 2D | | N83-3008-46 | PAN HEAD TAPTITE SCREW | |
| W | 3C | | N86-2004-45 | BINDING HEAD TAPTITE SCREW | |
| RLED | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| RPH | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| SW1 | | | S68-0871-05 | PUSH SWITCH (PANEL MECHA) | |
| SW2-3 | | | S68-0863-05 | PUSH SWITCH (PANEL MECHA) | |
| SW4 | | | S68-0864-05 | PUSH SWITCH (PANEL MECHA) | |
| PH | | | T95-0212-05 | OPTO ISOLATOR (PANEL MECHA) | |
| PM1 | 3D | * | T42-1076-14 | MOTOR ASSY | |
| PM2 | 3D | * | T42-1077-04 | MOTOR ASSY | |
| DME1 | 2D | | X92-4670-01 | CD MECHANISM ASSY | |
| **SUB-CIRCUIT UNIT (X16-2080-10)** | | | | | |
| J1 | | | E59-0833-15 | RECTANGULAR PLUG | |
| CP1 | | | R90-1019-05 | MULTI-COMP 100 X2 | |
| IC1 | | * | BR24C01AFV-W | MEMORY IC | |
| **SUB-CIRCUIT UNIT (X16-2120-10)** | | | | | |
| D17 | | | B30-1564-05 | LED (1608, BLUE) | |
| C1 | | | CK73FB1C105K | CHIP C 1.0UF K | |
| C2 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C3 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C3 | | | CK73GB1H104K | CHIP C 0.10UF K | |
| C4,5 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C6 | | | CC73GCH1H101J | CHIP C 100PF J | |
| C7 | | | CK73EB0J106K | CHIP C 10UF K | |
| C8 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C9 | | | CK73FB1C105K | CHIP C 1.0UF K | |
| C10 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C11-16 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C20,21 | | | CK73EB1A475K | CHIP C 4.7UF K | |
| C22 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C30 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C31 | | | CK73EB0J106K | CHIP C 10UF K | |
| C32 | | | C93-1217-05 | CHIP C 0.047UF K | |
| C33 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| CN1 | | | E40-9364-05 | FLAT CABLE CONNECTOR | |
| CN2 | | | E41-0166-05 | FLAT CABLE CONNECTOR | |
| - | | * | H30-0573-04 | ADHESIVE DOUBLE-COATED TAPE | |
| L1 | | | L40-1005-34 | SMALL FIXED INDUCTOR | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| L1 | | | L40-1005-68 | SMALL FIXED INDUCTOR | |
| L3 | | | L40-1005-34 | SMALL FIXED INDUCTOR | |
| L3 | | | L40-1005-68 | SMALL FIXED INDUCTOR | |
| L4,5 | | | L92-0332-05 | CHIP FERRITE | |
| X1 | | | L78-0821-05 | RESONATOR | |
| CP1 | | | R90-1019-05 | MULTI-COMP 100 X2 | |
| CP2 | | | R90-1014-05 | MULTI-COMP 100 X4 | |
| CP3 | | | R90-0737-05 | MULTI-COMP 100K X2 | |
| CP4 | | | R90-0724-05 | MULTI-COMP 1K X4 | |
| CP5 | | | R90-1019-05 | MULTI-COMP 100 X2 | |
| CP6 | | | R90-0725-05 | MULTI-COMP 1K X2 | |
| CP7 | | | R90-1014-05 | MULTI-COMP 100 X4 | |
| CP8,9 | | | R90-0724-05 | MULTI-COMP 1K X4 | |
| CP11,12 | | | R90-0719-05 | MULTI-COMP 4.7K X2 | |
| CP13 | | | R90-0726-05 | MULTI-COMP 10K X2 | |
| CP14 | | | R90-1012-05 | MULTI-COMP 22K X4 | |
| CP15 | | | R90-0725-05 | MULTI-COMP 1K X2 | |
| CP16 | | | R90-1022-05 | MULTI-COMP 470 X2 | |
| R1 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R2 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R3 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R4,5 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R6 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R7 | | | RK73GB2A220J | CHIP R 22 J 1/10W | |
| R8 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R9,10 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R11 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R12 | | | RK73GB2A101J | CHIP R 100 J 1/10W | |
| R13 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R14,15 | | | RK73GB2A274J | CHIP R 270K J 1/10W | |
| R16,17 | | | RK73GB2A153J | CHIP R 15K J 1/10W | |
| R18 | | | RK73GB2A100J | CHIP R 10 J 1/10W | |
| R20 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R24 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R25 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R26 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R27 | | | RK73GB2A153J | CHIP R 15K J 1/10W | |
| R28 | | | RK73FB2B101J | CHIP R 100 J 1/8W | |
| R30 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R33 | | | RK73GB2A4R7J | CHIP R 4.7 J 1/10W | |
| R34,35 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| D1-11 | | | DA204U | DIODE | |
| D13 | | | FTZ6.8E | ZENER DIODE | |
| D14 | | | MA3062WA | ZENER DIODE | |
| ED1 | | * | CN2067M | FLUORESCENT INDICATOR TUBE | |
| IC1 | | | TAR5S33 | ANALOGUE IC | |
| IC2 | | | TC74HC4050AFT | MOS-IC | |
| IC3 | | | RS-171 | ANALOGUE IC | |
| IC4 | | | BA3830F | ANALOGUE IC | |
| IC5 | | * | 703032BGFA01 | MI-COM IC | |
| Q1 | | | 2SA1163 | TRANSISTOR | |
| Q2 | | | 2SC2713 | TRANSISTOR | |
| Q3 | | | DTA114EUA | DIGITAL TRANSISTOR | |
| Q3 | | | UN5111 | DIGITAL TRANSISTOR | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# KDC-MP922/X869

## PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| Q4,5 | | | 2SC4081 | TRANSISTOR | |
| **SWITCH UNIT (X16-2170-10)** | | | | | |
| D1-11 | | | B30-1605-05 | LED (2COLOR PG/RED) | |
| D12 | | | B30-1564-05 | LED (1608, BLUE) | |
| D13 | | | B30-1605-05 | LED (2COLOR PG/RED) | |
| D14 | | | B30-1564-05 | LED (1608, BLUE) | |
| D15 | | | B30-1605-05 | LED (2COLOR PG/RED) | |
| D16 | | | B30-1564-05 | LED (1608, BLUE) | |
| D17 | | | B30-1605-05 | LED (2COLOR PG/RED) | |
| D18,19 | | | B30-1564-05 | LED (1608, BLUE) | |
| D21 | | | B30-1566-05 | LED (1608, RED) | |
| C1-5 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| CN1 | | * | E41-0419-05 | FLAT CABLE CONNECTOR | |
| R1 | | | RK73FB2B241J | CHIP R 240 J 1/8W | |
| R3-5 | | | RK73FB2B241J | CHIP R 240 J 1/8W | |
| R6,7 | | | RK73FB2B301J | CHIP R 300 J 1/8W | |
| R8 | | | RK73FB2B241J | CHIP R 240 J 1/8W | |
| R9 | | | RK73FB2B301J | CHIP R 300 J 1/8W | |
| R10 | | | RK73FB2B470J | CHIP R 47 J 1/8W | |
| R15 | | | RK73GB2A241J | CHIP R 240 J 1/10W | |
| R16 | | | RK73GB2A471J | CHIP R 470 J 1/10W | |
| R17 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R18 | | | RK73GB2A471J | CHIP R 470 J 1/10W | |
| R19 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| S1 | | * | S70-0901-05 | TACT SWITCH | |
| S2,3 | | | S70-0864-05 | TACT SWITCH | |
| S4 | | | S70-0856-05 | TACT SWITCH | |
| S5-8 | | | S70-0864-05 | TACT SWITCH | |
| S9 | | | S70-0856-05 | TACT SWITCH | |
| S10-13 | | | S70-0864-05 | TACT SWITCH | |
| S14 | | | S70-0856-05 | TACT SWITCH | |
| S15-18 | | | S70-0864-05 | TACT SWITCH | |
| S19 | | | S70-0856-05 | TACT SWITCH | |
| S20 | | | S70-0864-05 | TACT SWITCH | |
| S21 | | * | T99-0445-05 | ROTARY ENCODER | |
| D20 | | | DAP202U | DIODE | |
| D20 | | | MA142WA | DIODE | |
| D22 | | | MA8068-M | ZENER DIODE | |
| Q1 | | | DTA114YUA | DIGITAL TRANSISTOR | |
| Q2,3 | | | 2SC4081 | TRANSISTOR | |
| **SUB-CIRCUIT UNIT (X16-2210-10)** | | | | | |
| 315 | 2C | * | E58-0968-05 | RECTANGULAR RECEPTACLE | |
| FPC3 | 2C | * | J84-0154-05 | FLEXIBLE PRINTED WIRING BOARD | |
| **ELECTRIC UNIT (X25-9640-1x)** | | | | | |
| C2 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C3 | | | C90-2866-05 | ELECTRO 220UF 16WV | |
| C4 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C5 | | | CE04NW1C100M | ELECTRO 10UF 16WV | |
| C6 | | | CE04NW0J101M | ELECTRO 100UF 6.3WV | |
| C7 | | | CK73FB1C105K | CHIP C 1.0UF K | |

**SUB-CIRCUIT UNIT (X16-2120-10)**

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| C8 | | | CE04CW1A221M | ELECTRO 220UF 10WV | |
| C9 | | | CE04CW1A101M | ELECTRO 100UF 10WV | |
| C10 | | * | CE32AZ1E221M | CHIP EL 220UF 25WV | |
| C11 | | | CK73GB1H332K | CHIP C 3300PF K | |
| C12 | | * | CE32AZ1C221M | CHIP EL 220UF 16WV | |
| C13 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C14 | | | CK73EB1C225K | CHIP C 2.2UF K | |
| C15 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C16 | | * | CE32AZ1C101M | CHIP EL 100UF 16WV | |
| C17 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C18 | | * | CE32AZ1C101M | CHIP EL 100UF 16WV | |
| C21 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C22 | | | C93-1218-05 | CHIP C 0.010UF K | |
| C23 | | | C90-5375-05 | ELECTRO 33UF 63WV | |
| C30 | | | CE04NW1E4R7M | ELECTRO 4.7UF 25WV | |
| C31 | | | C90-2962-05 | ELECTRO 100UF 16WV | |
| C32-35 | | | CK73EB1C225K | CHIP C 2.2UF K | |
| C36 | | | CE04NW1C220M | ELECTRO 22UF 16WV | |
| C37 | | | CK73GB1E223K | CHIP C 0.022UF K | |
| C37 | | | CK73GB1H223K | CHIP C 0.022UF K | |
| C38 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C39,40 | | | CK73EB1C225K | CHIP C 2.2UF K | |
| C42 | | | CK73GB1E223K | CHIP C 0.022UF K | |
| C42 | | | CK73GB1H223K | CHIP C 0.022UF K | |
| C43 | | | CK73FB1C105K | CHIP C 1.0UF K | |
| C44,45 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C46 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C48 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C100 | | | C90-2822-05 | ELECTRO 3900UF 16WV | K2 |
| C100 | | | C90-5484-05 | ELECTRO 3900UF 16WV | K1 |
| C101 | | | CE04NW0J470M | ELECTRO 47UF 6.3WV | |
| C102 | | | CC73GCH1H220J | CHIP C 22PF J | |
| C103 | | | CC73GCH1H270J | CHIP C 27PF J | |
| C104 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C106 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C107 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C109 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C110,111 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C199 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C199 | | | CK73GB1H104K | CHIP C 0.10UF K | |
| C201,202 | | | CE04NW1HR47M | ELECTRO 0.47UF 50WV | |
| C203,204 | | | CK73FB1C474K | CHIP C 0.47UF K | |
| C205,206 | | | CE04NW0J470M | ELECTRO 47UF 6.3WV | |
| C207,208 | | | CK73FB1C474K | CHIP C 0.47UF K | |
| C209 | | | CK73GB1E223K | CHIP C 0.022UF K | |
| C209 | | | CK73GB1H223K | CHIP C 0.022UF K | |
| C210 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C211 | | | CK73GB1A474K | CHIP C 0.47UF K | |
| C212 | | | CC73GCH1H151J | CHIP C 150PF J | |
| C213 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C213 | | | CK73GB1H104K | CHIP C 0.10UF K | |
| C214 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C215 | | | CE04NW1C470M | ELECTRO 47UF 16WV | |
| C216-223 | | | CK73FB1C105K | CHIP C 1.0UF K | |
| C224 | | | CK73GB1C104K | CHIP C 0.10UF K | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

## ELECTRIC UNIT (X25-9640-1x)

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C224 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C225 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C226-231 | | | CK73GB1E473K | CHIP C | 0.047UF | K | |
| C226-231 | | | CK73GB1H473K | CHIP C | 0.047UF | K | |
| C232 | | | CK73FB1C105K | CHIP C | 1.0UF | K | |
| C233 | | | C92-0667-05 | ELECTRO | 10UF | 10WV | |
| C234 | | | CK73GB1E333K | CHIP C | 0.033UF | K | |
| C234 | | | CK73GB1H333K | CHIP C | 0.033UF | K | |
| C235 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C236 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C237 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| C238 | | | CC73GCH1H221J | CHIP C | 220PF | J | |
| C239 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C240,241 | | | C92-0667-05 | ELECTRO | 10UF | 10WV | |
| C250 | | * | CE32AT1H2R2M | CHIP EL | 2.2UF | 50WV | K1 |
| C250 | | | C92-0687-05 | ELECTRO | 2.2UF | 50WV | K2 |
| C251 | | | CK73FB1C334K | CHIP C | 0.33UF | K | |
| C252 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C253 | | | CK73FB1C334K | CHIP C | 0.33UF | K | |
| C254 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C255 | | | CK73FB1C334K | CHIP C | 0.33UF | K | |
| C256 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C257 | | | CK73FB1C334K | CHIP C | 0.33UF | K | |
| C258 | | | CK73GB1A334K | CHIP C | 0.33UF | K | |
| C259 | | * | CE32AT1H010M | CHIP EL | 1.0UF | 50WV | K1 |
| C259 | | | C92-0686-05 | ELECTRO | 1UF | 50WV | K2 |
| C260-263 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C260-263 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C264,265 | | | CE04NW1C220M | ELECTRO | 22UF | 16WV | |
| C266,267 | | | CE04NW1C100M | ELECTRO | 10UF | 16WV | |
| C268,269 | | | CE04NW1C220M | ELECTRO | 22UF | 16WV | |
| C270,271 | | | CE04NW1C100M | ELECTRO | 10UF | 16WV | |
| C272-275 | | | C90-5296-05 | NP-ELECT | 0.22UF | 50WV | |
| C276 | | | CK73FB1C105K | CHIP C | 1.0UF | K | |
| C277 | | | CE04NW1C330M | ELECTRO | 33UF | 16WV | |
| C278 | | | C90-2935-05 | ELECTRO | 1.0UF | 50WV | |
| C279 | | | CE04NW1H010M | ELECTRO | 1.0UF | 50WV | |
| C280-285 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C286 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C287-289 | | | CK73FB1H104K | CHIP C | 0.10UF | K | |
| C290,291 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C292-296 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C297,298 | | | C92-0672-05 | ELECTRO | 22UF | 16WV | |
| C299,300 | | | CE04NW1C100M | ELECTRO | 10UF | 16WV | |
| C303-305 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C307 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C309,310 | | | CC73GCH1H100D | CHIP C | 10PF | D | |
| C311 | | | CC73GCH1H331J | CHIP C | 330PF | J | |
| C312 | | | CK73FB1A225K | CHIP C | 2.2UF | K | |
| C313 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C314 | | | CE04NW1C100M | ELECTRO | 10UF | 16WV | |
| C316-319 | | | CK73GB1A224K | CHIP C | 0.22UF | K | |
| C502-504 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C601,602 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C601,602 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C603 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C701 | | | CK73GB1A474K | CHIP C | 0.47UF | K | |
| CN1 | | | E41-0224-05 | PIN ASSY | | | |
| CN2 | | | E40-3237-05 | PIN ASSY | | | |
| CN3 | | * | E41-0384-05 | PIN ASSY | | | |
| CN4 | | | E40-9527-05 | FLAT CABLE CONNECTOR | | | |
| CN4 | | | E41-0213-05 | FLAT CABLE CONNECTOR | | | |
| CN5 | | | E40-9368-05 | FLAT CABLE CONNECTOR | | | |
| CN6 | | * | E41-0399-05 | FLAT CABLE CONNECTOR | | | |
| CN7 | | | E41-0009-05 | PIN ASSY | | | |
| ⚠ J1 | | | E58-0863-15 | RECTANGULAR RECEPTACLE | | | |
| W2 | | * | E30-6218-05 | CORD WITH PLUG | | | |
| L1 | | | L33-1170-05 | CHOKE COIL ASSY | | | |
| L2 | | | L33-1126-05 | CHOKE COIL | | | |
| L3 | | | L33-1029-05 | SMALL FIXED INDUCTOR | | | |
| L4 | | | L40-2205-34 | SMALL FIXED INDUCTOR (22UH) | | | |
| L7 | | | L33-1039-05 | LINE FILTER COIL | | | |
| L101 | | | L40-4795-34 | SMALL FIXED INDUCTOR | | | |
| L101 | | | L40-4795-68 | SMALL FIXED INDUCTOR (4.7UH) | | | |
| L102 | | | L92-0075-05 | CHIP FERRITE | | | |
| L201 | | | L40-4795-34 | SMALL FIXED INDUCTOR | | | |
| L201 | | | L40-4795-68 | SMALL FIXED INDUCTOR (4.7UH) | | | |
| L303-307 | | | L40-4795-34 | SMALL FIXED INDUCTOR | | | |
| L303-307 | | | L40-4795-68 | SMALL FIXED INDUCTOR (4.7UH) | | | |
| X1 | | | L78-0821-05 | RESONATOR | | | |
| X2 | | | L77-2738-05 | CRYSTAL RESONATOR | | | |
| X3 | | | L77-2002-05 | CRYSTAL RESONATOR | | | |
| U | 2D | | N83-3005-46 | PAN HEAD TAPTITE SCREW | | | |
| X | 2D | | N80-3008-46 | PAN HEAD TAPTITE SCREW | | | |
| Y | 2D | | N83-3010-46 | PAN HEAD TAPTITE SCREW | | | |
| Z | 2D | | N84-2004-46 | PAN HEAD TAPTITE SCREW | | | |
| R1 | | | RK73FB2B223J | CHIP R | 22K | J 1/8W | |
| R2 | | | RK73GB2A101J | CHIP R | 100 | J 1/10W | |
| R3 | | | RK73GB2A223J | CHIP R | 22K | J 1/10W | |
| R4 | | | RK73GB2A222J | CHIP R | 2.2K | J 1/10W | |
| R5 | | | RK73FB2B221J | CHIP R | 220 | J 1/8W | |
| R6 | | | RK73GB2A153J | CHIP R | 15K | J 1/10W | |
| R7 | | | R92-3032-05 | CHIP R | 4.3K | D 1/10W | |
| R8 | | | R92-3047-05 | CHIP R | 24K | D 1/10W | |
| R9 | | | RK73FB2B152J | CHIP R | 1.5K | J 1/8W | |
| R10 | | | R92-3022-05 | METAL R | 750 | D 1/10W | |
| R11 | | | R92-3028-05 | CHIP R | 2.2K | D 1/10W | |
| R12 | | | RK73GB2A103J | CHIP R | 10K | J 1/10W | |
| R13 | | | R92-2104-05 | CHIP R | 2.2 | J 1W | |
| R14 | | | RK73FB2B751J | CHIP R | 750 | J 1/8W | |
| R15 | | | RK73GB2A473J | CHIP R | 47K | J 1/10W | |
| R16 | | | RK73FB2B103J | CHIP R | 10K | J 1/8W | |
| R17 | | | RK73GB2A102J | CHIP R | 1.0K | J 1/10W | |
| R18 | | | RK73GB2A750J | CHIP R | 75 | J 1/10W | |
| R19 | | | RK73GB2A272J | CHIP R | 2.7K | J 1/10W | |
| R20 | | | RK73GB2A470J | CHIP R | 47 | J 1/10W | |
| R21 | | | RK73GB2A752J | CHIP R | 7.5K | J 1/10W | |
| R22 | | | RK73GB2A274J | CHIP R | 270K | J 1/10W | |
| R23 | | | RK73GB2A563J | CHIP R | 56K | J 1/10W | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# KDC-MP922/X869

## PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

### ELECTRIC UNIT (X25-9640-1x)

| Ref. No. | Add | New | Parts No. | Description | | | | Destination |
|---|---|---|---|---|---|---|---|---|
| R24 | | | RK73GB2A470J | CHIP R | 47 | J | 1/10W | |
| R25 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R26,27 | | | RK73GB2A913J | CHIP R | 91K | J | 1/10W | |
| R28 | | | RK73FB2B472J | CHIP R | 4.7K | J | 1/8W | |
| R29 | | | RD14DB2H102J | SMALL-RD | 1.0K | J | 1/2W | |
| R30 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R31 | | | RK73FB2B472J | CHIP R | 4.7K | J | 1/8W | |
| R32 | | | RK73FB2B561J | CHIP R | 560 | J | 1/8W | K1 |
| R34,35 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R36 | | | RK73FB2B103J | CHIP R | 10K | J | 1/8W | |
| R37 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R38 | | | RK73GB2A822J | CHIP R | 8.2K | J | 1/10W | |
| R41 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R42 | | | RD14DB2H332J | SMALL-RD | 3.3K | J | 1/2W | |
| R43 | | | RK73EB2E473J | CHIP R | 47K | J | 1/4W | |
| R44 | | | RK73GB2A183J | CHIP R | 18K | J | 1/10W | |
| R45 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R46 | | | RK73EB2E103J | CHIP R | 10K | J | 1/4W | |
| R48 | | | RK73EB2E102J | CHIP R | 1.0K | J | 1/4W | K1 |
| R49 | | | RD14DB2H102J | SMALL-RD | 1.0K | J | 1/2W | |
| R101 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R102 | | | RK73GB2A153J | CHIP R | 15K | J | 1/10W | |
| R103 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R106 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | K2 |
| R106,107 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | K1 |
| R109 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | K2 |
| R110 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R111,112 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R115,116 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R117 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R118-120 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R121 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R122,123 | | | RK73GB2A101J | CHIP R | 100 | J | 1/10W | |
| R127 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R128 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R129 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R130 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R131 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R132 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R133-136 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R137 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R138-140 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R141 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R142,143 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R144 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R145,146 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R150,151 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R152,153 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R156 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R158 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R159,160 | | | RK73GB2A471J | CHIP R | 470 | J | 1/10W | |
| R161 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R162 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R163,164 | | | RK73GB2A471J | CHIP R | 470 | J | 1/10W | |
| R165,166 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |

| Ref. No. | Add | New | Parts No. | Description | | | | Destination |
|---|---|---|---|---|---|---|---|---|
| R167 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R169 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R170 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R171,172 | | | RK73GB2A471J | CHIP R | 470 | J | 1/10W | |
| R173,174 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R175 | | | RK73GB2A333J | CHIP R | 33K | J | 1/10W | |
| R176 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R177 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R178,179 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R180 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | |
| R181 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R182 | | | RK73GB2A104J | CHIP R | 100K | J | 1/10W | |
| R183 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | K2 |
| R183,184 | | | RK73GB2A222J | CHIP R | 2.2K | J | 1/10W | K1 |
| R186 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R201 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |
| R202-204 | | | RK73GB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R205 | | | RK73GB2A134J | CHIP R | 130K | J | 1/10W | |
| R206 | | | RK73GB2A823J | CHIP R | 82K | J | 1/10W | |
| R207 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R208 | | | RK73GB2A912J | CHIP R | 9.1K | J | 1/10W | |
| R209 | | | RK73GB2A363J | CHIP R | 36K | J | 1/10W | |
| R210 | | | RK73GB2A622J | CHIP R | 6.2K | J | 1/10W | |
| R217 | | | RK73GB2A682J | CHIP R | 6.8K | J | 1/10W | |
| R218 | | | RK73GB2A332J | CHIP R | 3.3K | J | 1/10W | |
| R219 | | | RK73GB2A392J | CHIP R | 3.9K | J | 1/10W | |
| R220,221 | | | RK73FB2B361J | CHIP R | 360 | J | 1/8W | |
| R222,223 | | | RK73FB2B222J | CHIP R | 2.2K | J | 1/8W | |
| R224,225 | | | RK73FB2B103J | CHIP R | 10K | J | 1/8W | |
| R226,227 | | | RK73FB2B223J | CHIP R | 22K | J | 1/8W | |
| R228,229 | | | RK73FB2B820J | CHIP R | 82 | J | 1/8W | |
| R232,233 | | | RK73FB2B361J | CHIP R | 360 | J | 1/8W | |
| R234,235 | | | RK73FB2B222J | CHIP R | 2.2K | J | 1/8W | |
| R236,237 | | | RK73FB2B103J | CHIP R | 10K | J | 1/8W | |
| R238,239 | | | RK73FB2B223J | CHIP R | 22K | J | 1/8W | |
| R240,241 | | | RK73FB2B820J | CHIP R | 82 | J | 1/8W | |
| R244,245 | | | RK73FB2B361J | CHIP R | 360 | J | 1/8W | |
| R246,247 | | | RK73FB2B222J | CHIP R | 2.2K | J | 1/8W | |
| R248,249 | | | RK73FB2B103J | CHIP R | 10K | J | 1/8W | |
| R250,251 | | | RK73FB2B223J | CHIP R | 22K | J | 1/8W | |
| R252,253 | | | RK73FB2B820J | CHIP R | 82 | J | 1/8W | |
| R256 | | | RK73GB2A221J | CHIP R | 220 | J | 1/10W | |
| R257 | | | RK73GB2A223J | CHIP R | 22K | J | 1/10W | |
| R259 | | | RK73GB2A432J | CHIP R | 4.3K | J | 1/10W | |
| R260 | | | RK73GB2A100J | CHIP R | 10 | J | 1/10W | |
| R261 | | | RK73GB2A752J | CHIP R | 7.5K | J | 1/10W | |
| R262 | | | RK73EB2E4R7J | CHIP R | 4.7 | J | 1/4W | |
| R263,264 | | | RK73EB2E100J | CHIP R | 10 | J | 1/4W | |
| R265,266 | | | RK73GB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R267 | | | RK73EB2E100J | CHIP R | 10 | J | 1/4W | |
| R268 | | | RK73EB2E4R7J | CHIP R | 4.7 | J | 1/4W | |
| R269 | | | RK73EB2E100J | CHIP R | 10 | J | 1/4W | |
| R270 | | | RK73GB2A473J | CHIP R | 47K | J | 1/10W | |
| R271 | | | RK73GB2A821J | CHIP R | 820 | J | 1/10W | |
| R272,273 | | | RK73GB2A103J | CHIP R | 10K | J | 1/10W | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# PARTS LIST

* New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

## ELECTRIC UNIT (X25-9640-1x)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R274 | | | RK73GB2A153J | CHIP R 15K J 1/10W | |
| R275 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R276 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R277 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R278 | | | RK73GB2A333J | CHIP R 33K J 1/10W | |
| R279,280 | | | RK73GB2A334J | CHIP R 330K J 1/10W | |
| R303 | | | RK73FB2B102J | CHIP R 1.0K J 1/8W | |
| R304 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R305 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R306-308 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R501,502 | | | RK73EB2E101J | CHIP R 100 J 1/4W | |
| R503-507 | | | RK73EB2E472J | CHIP R 4.7K J 1/4W | |
| R508 | | | RK73EB2E101J | CHIP R 100 J 1/4W | |
| R513 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R514-516 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R517,518 | | | RK73EB2E101J | CHIP R 100 J 1/4W | |
| R519 | | | RK73EB2E471J | CHIP R 470 J 1/4W | |
| R520 | | | RK73EB2E472J | CHIP R 4.7K J 1/4W | |
| R522-524 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R525 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R526,527 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R601,602 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R603 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R604,605 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R606 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R607 | | | RK73GB2A911J | CHIP R 910 J 1/10W | |
| R608,609 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R610 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R611,612 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R613 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R614 | | | RK73GB2A911J | CHIP R 910 J 1/10W | |
| R615-618 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R620 | | | RK73EB2E102J | CHIP R 1.0K J 1/4W | |
| R621 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R623,624 | | | RK73GB2A332J | CHIP R 3.3K J 1/10W | |
| R625,626 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R701 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| D1 | | | 1N5393G-M5 | DIODE | |
| D2 | | | RB160L-40 | DIODE | |
| D3 | | | MA8056-M | ZENER DIODE | |
| D4 | | | MA8082-L | ZENER DIODE | |
| D5 | | | SFPB-54V | DIODE | |
| D6 | | | MA8100-L | ZENER DIODE | |
| D7 | | | MA4062(N)-L | ZENER DIODE | |
| D8 | | | MA8110-M | ZENER DIODE | |
| D9 | | | MA8056-M | ZENER DIODE | |
| D16 | | | MA3056-M | ZENER DIODE | K1 |
| D18 | | | MA8068-M | ZENER DIODE | |
| D19 | | | MA8062-M | ZENER DIODE | |
| D20,21 | | | DAP202U | DIODE | |
| D20,21 | | | MA142WA | DIODE | |
| D101 | | | DAP202U | DIODE | |
| D101 | | | MA142WA | DIODE | |
| D201,202 | | | RD6.8M(B2) | ZENER DIODE | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| D203 | | | RD6.8MW | ZENER DIODE | |
| D204,205 | | | RD6.8M(B2) | ZENER DIODE | |
| D206 | | | RD6.8MW | ZENER DIODE | |
| D207,208 | | | DAP202U | DIODE | |
| D207,208 | | | MA142WA | DIODE | |
| D209-216 | | | S1J | DIODE | |
| D209-216 | | | 1SR154-400 | DIODE | |
| D217 | | | DA204K | DIODE | |
| D301 | | | IMSA-6801 | SURGE ABSORBER | |
| D503-505 | | | MA3062WA | ZENER DIODE | |
| D506-509 | | | DA204K | DIODE | |
| D601 | | | DA204K | DIODE | |
| IC1 | | * | 703033BGC020 | MI-COM IC | |
| IC2 | | | TDA7411 | ANALOGUE IC | |
| IC3 | | | M5237ML | ANALOGUE IC | |
| IC4 | | | TDA7560 | ANALOGUE IC | |
| IC5 | | | TDA7401 | ANALOGUE IC | |
| IC6 | | * | NJM2195FJ1 | ANALOGUE IC | |
| IC7 | | | ICL7660SIBA | ANALOGUE IC | |
| IC8 | | | S-80837CNNB | MOS-IC | |
| IC9 | | | TC74HC02AF | MOS-IC | |
| IC10-13 | | | NJM4565M-TE2 | ANALOGUE IC | |
| IC14 | | | TDA7479D | ANALOGUE IC | |
| IC15,16 | | | LB1930M | ANALOGUE IC | |
| IC17 | | | BR24C01AF-W | ROM IC | |
| IC18 | | | L9820D013TR | ANALOGUE IC | |
| IC19 | | | LM2672M-ADJ | ANALOGUE IC | |
| IC20 | | * | TC7W66FK | MOS-IC | |
| Q1 | | | 2SA2057 | TRANSISTOR | |
| Q2 | | | 2SC4081 | TRANSISTOR | |
| Q3 | | | 2SA1576A | TRANSISTOR | |
| Q4 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q4 | | | UN5112 | DIGITAL TRANSISTOR | |
| Q5 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q5 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q6 | | | DTC144EUA | DIGITAL TRANSISTOR | |
| Q6 | | | UN5213 | DIGITAL TRANSISTOR | |
| Q7 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q7 | | | UN5112 | DIGITAL TRANSISTOR | |
| Q8,9 | | | 2SA2057 | TRANSISTOR | |
| Q11 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q11 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q12 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q12 | | | UN5112 | DIGITAL TRANSISTOR | |
| Q13 | | | 2SA2057 | TRANSISTOR | |
| Q14 | | | 2SC4081 | TRANSISTOR | |
| Q15 | | | 2SB1443 | TRANSISTOR | |
| Q16,17 | | | 2SC4081 | TRANSISTOR | |
| Q18,19 | | | 2SA1576A | TRANSISTOR | |
| Q20 | | | 2SC4081 | TRANSISTOR | |
| Q21 | | | 2SA1576A | TRANSISTOR | |
| Q22 | | | 2SC4081 | TRANSISTOR | |
| Q23 | | | DTC114YUA | DIGITAL TRANSISTOR | |
| Q23 | | | UN5214 | DIGITAL TRANSISTOR | |
| Q24 | | | 2SB1240 | TRANSISTOR | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# KDC-MP922/X869

## PARTS LIST

✻ New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| Q25 | | | DTA123JK | DIGITAL TRANSISTOR | K1 |
| Q25 | | | KRA105S | DIGITAL TRANSISTOR | K1 |
| Q26 | | | DTC144EUA | DIGITAL TRANSISTOR | |
| Q26 | | | UN5213 | DIGITAL TRANSISTOR | |
| Q27 | | | 2SC4081 | TRANSISTOR | |
| Q29 | | | 2SC4081 | TRANSISTOR | |
| Q30,31 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q30,31 | | | UN5112 | DIGITAL TRANSISTOR | |
| Q201 | | | DTC143TUA | DIGITAL TRANSISTOR | |
| Q201 | | | UN5216 | DIGITAL TRANSISTOR | |
| Q202 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q202 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q203-208 | | | DTC143TUA | DIGITAL TRANSISTOR | |
| Q203-208 | | | UN5216 | DIGITAL TRANSISTOR | |
| Q210 | | | 2SC4081 | TRANSISTOR | |
| Q303 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q303 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q304 | | | 2SB1188(Q,R) | TRANSISTOR | |
| Q305 | | | DTC143TUA | DIGITAL TRANSISTOR | |
| Q305 | | | UN5216 | DIGITAL TRANSISTOR | |
| Q501 | | | DTA124EUA | DIGITAL TRANSISTOR | |
| Q501 | | | UN5112 | DIGITAL TRANSISTOR | |
| Q502 | | | 2SB1427 | TRANSISTOR | |
| Q503 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q503 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q601 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q601 | | | UN5212 | DIGITAL TRANSISTOR | |
| Q602 | | | 2SC4081 | TRANSISTOR | |
| Q603 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q603 | | | UN5212 | DIGITAL TRANSISTOR | |
| TH1 | | | PTH9C42BD471Q | POSITIVE RESISTOR | |
| A2 | | ✻ | W02-3430-05 | ELECTRIC CIRCUIT MODULE | |
| A1 | | ✻ | X86-3730-11 | FRONT-END UNIT | |

### CD PLAYER UNIT (X32-5410-00)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C1 | | | C92-0628-05 | CHIP-TAN | 10UF | 10WV | |
| C2 | | | CK73FB1A105K | CHIP C | 1.0UF | K | |
| C3 | | | CK73FB1A225K | CHIP C | 2.2UF | K | |
| C4 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C5 | | | CC73GCH1H680J | CHIP C | 68PF | J | |
| C6 | | | CC73GCH1H681J | CHIP C | 680PF | J | |
| C7 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C8 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C9,10 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C11 | | | CC73GCH1H681J | CHIP C | 680PF | J | |
| C12 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C13 | | | CC73GCH1H680J | CHIP C | 68PF | J | |
| C15 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C16 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C17 | | | CK73GB1H331K | CHIP C | 330PF | K | |
| C18 | | | CK73GB1H472K | CHIP C | 4700PF | K | |
| C19,20 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C21 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C22 | | | CK73GB0J105K | CHIP C | 1.0UF | K | |

### ELECTRIC UNIT (X25-9640-1x)

| Ref. No. | Add | New | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C23 | | | CK73FB1A225K | CHIP C | 2.2UF | K | |
| C26 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C27 | | | C92-0712-05 | CHIP-TAN | 22UF | 6.3WV | |
| C28 | | | CK73GB1H102K | CHIP C | 1000PF | K | |
| C29 | | | CK73GB1H331K | CHIP C | 330PF | K | |
| C30 | | | CK73GB1H152K | CHIP C | 1500PF | K | |
| C31-35 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C36 | | | C92-0712-05 | CHIP-TAN | 22UF | 6.3WV | |
| C41 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C42 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C45 | | | CK73GB1H102K | CHIP C | 1000PF | K | |
| C47 | | | C92-0628-05 | CHIP-TAN | 10UF | 10WV | |
| C48 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C50 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C52 | | | CK73GB1H152K | CHIP C | 1500PF | K | |
| C53 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C55 | | | CC73GCH1H470J | CHIP C | 47PF | J | |
| C56 | | | CC73GCH1H820J | CHIP C | 82PF | J | |
| C57 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C59 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C61 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C63 | | | CC73GCH1H020C | CHIP C | 2.0PF | C | |
| C65 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C67 | | | CK73GB1H222K | CHIP C | 2200PF | K | |
| C68 | | | CC73GCH1H060D | CHIP C | 6.0PF | D | |
| C70 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C74 | | | CK73GB1H682K | CHIP C | 6800PF | K | |
| C75 | | | CK73GB1H332K | CHIP C | 3300PF | K | |
| C76 | | | CK73GB1H103K | CHIP C | 0.010UF | K | |
| C77 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C78 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C79-82 | | | CK73GB1H152K | CHIP C | 1500PF | K | |
| C83 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C84 | | | C92-0628-05 | CHIP-TAN | 10UF | 10WV | |
| C85 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| C87 | | | CK73EB1A475K | CHIP C | 4.7UF | K | |
| C88 | | | CK73GB1H104K | CHIP C | 0.10UF | K | |
| CN1 | | | E41-0213-05 | FLAT CABLE CONNECTOR | | | |
| CN2 | | | E40-9536-05 | FLAT CABLE CONNECTOR | | | |
| L1 | | | L92-0329-05 | CHIP FERRITE | | | |
| L5 | | | L92-0329-05 | CHIP FERRITE | | | |
| X1 | | | L78-0851-05 | RESONATOR (16.93MHZ) | | | |
| X2 | | | L78-0862-05 | RESONATOR (16.00MHZ) | | | |
| CP1,2 | | | R90-1019-05 | MULTI-COMP | 100 X2 | | |
| CP4 | | | R90-0719-05 | MULTI-COMP | 4.7K X2 | | |
| CP5 | | | R90-0737-05 | MULTI-COMP | 100K X2 | | |
| CP6 | | | R90-1019-05 | MULTI-COMP | 100 X2 | | |
| CP7 | | | R90-0737-05 | MULTI-COMP | 100K X2 | | |
| CP13 | | | R90-0720-05 | MULTI-COMP | 100K X4 | | |
| CP15 | | | R90-0718-05 | MULTI-COMP | 4.7K X4 | | |
| CP16-22 | | | R90-1014-05 | MULTI-COMP | 100 X4 | | |
| CP23 | | | R90-0714-05 | MULTI-COMP | 10K X4 | | |
| CP24 | | | R90-0720-05 | MULTI-COMP | 100K X4 | | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# PARTS LIST

✻ New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R1 | | | R92-3044-05 | CHIP R 18K D 1/10W | |
| R2 | | | R92-3041-05 | CHIP R 11K D 1/10W | |
| R3 | | | RK73FB2B303J | CHIP R 30K J 1/8W | |
| R4 | | | RK73GB2A222J | CHIP R 2.2K J 1/10W | |
| R5 | | | RK73FB2B272J | CHIP R 2.7K J 1/8W | |
| R6 | | | RK73FB2B331J | CHIP R 330 J 1/8W | |
| R7,8 | | | RK73FB2B752J | CHIP R 7.5K J 1/8W | |
| R9 | | | RK73FB2B272J | CHIP R 2.7K J 1/8W | |
| R10 | | | RK73FB2B331J | CHIP R 330 J 1/8W | |
| R11 | | | R92-3041-05 | CHIP R 11K D 1/10W | |
| R12 | | | RK73FB2B303J | CHIP R 30K J 1/8W | |
| R13 | | | R92-3044-05 | CHIP R 18K D 1/10W | |
| R14 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R16 | | | RK73GB2A123J | CHIP R 12K J 1/10W | |
| R17 | | | RK73GB2A133J | CHIP R 13K J 1/10W | |
| R18 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R19,20 | | | RK73GB2A123J | CHIP R 12K J 1/10W | |
| R21 | | | RK73GB2A432J | CHIP R 4.3K J 1/10W | |
| R22 | | | RK73GB2A133J | CHIP R 13K J 1/10W | |
| R23,24 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R25 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R26 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R27 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R28 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R29 | | | RK73GB2A133J | CHIP R 13K J 1/10W | |
| R30 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R31 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R32 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R33 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R34 | | | RK73GB2A183J | CHIP R 18K J 1/10W | |
| R35 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R36 | | | RK73GB2A163J | CHIP R 16K J 1/10W | |
| R38 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R39-41 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R42,43 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R46 | | | RK73GB2A4R7J | CHIP R 4.7 J 1/10W | |
| R47 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R49 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R50 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R51 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R52 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R53 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R55 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R57 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R59 | | | RK73GB2A164J | CHIP R 160K J 1/10W | |
| R62,63 | | | RK73GB2A302J | CHIP R 3.0K J 1/10W | |
| R67 | | | RK73GB2A682J | CHIP R 6.8K J 1/10W | |
| R69 | | | RK73GB2A333J | CHIP R 33K J 1/10W | |
| R70 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R71,72 | | | RK73GB2A101J | CHIP R 100 J 1/10W | |
| R73 | | | RK73GB2A241J | CHIP R 240 J 1/10W | |
| R75 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R76 | | | RK73GB2A101J | CHIP R 100 J 1/10W | |
| R77 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R78 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |

## CD PLAYER UNIT (X32-5410-00)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| W1 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | |
| S1,2 | | | S68-0863-05 | PUSH SWITCH | |
| S3 | | | S68-0862-05 | PUSH SWITCH | |
| D1 | | | DAP202U | DIODE | |
| IC1 | | | TAR5S33 | ANALOGUE IC | |
| IC2 | | | NJM4580V | ANALOGUE IC | |
| IC4 | | | BA5824FP | ANALOGUE IC | |
| IC6 | | | L88MS33T | ANALOGUE IC | |
| IC7 | | | 703033BYGC-J02 | MI-COM IC | |
| IC8 | | | TC74HCT7007AF | MOS-IC | |
| IC11 | | | UPD63760GJ | MOS-IC | |
| IC13 | | | IS41LV16257 | DRAM IC | |
| IC13 | | | MSM51V4265EP70 | DRAM IC | |
| Q1 | | | DTA143XUA | DIGITAL TRANSISTOR | |
| Q2,3 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q4 | | | MCH6101 | TRANSISTOR | |
| Q5 | | | DTA143EUA | DIGITAL TRANSISTOR | |

## CD MECHANISM ASSY (X92-4670-01)

| | | | | | |
|---|---|---|---|---|---|
| 2 | 1B | | A10-4827-12 | CHASSIS | |
| 5 | 1B | ✻ | D10-4576-43 | ARM ASSY | |
| 8 | 2A | | D10-4579-03 | LEVER ASSY | |
| 10 | 3A | | D10-4581-13 | ARM | |
| 11 | 2A | | D10-4582-13 | ARM | |
| 12 | 3A | | D10-4583-03 | ARM | |
| 13 | 3A | | D10-4584-03 | ARM | |
| 14 | 3B | | D10-4585-03 | ARM | |
| 15 | 2A | | D10-4586-13 | SLIDER | |
| 16 | 3B | | D10-4587-22 | SLIDER | |
| 17 | 3B | ✻ | D10-4588-13 | SLIDER | |
| 18 | 3B | | D10-4595-04 | ARM | |
| 19 | 3B | | D10-4596-14 | ARM | |
| 22 | 2A | | D13-2151-04 | GEAR | |
| 23 | 2B | | D13-2152-04 | GEAR | |
| 24 | 3B | | D13-2153-04 | GEAR | |
| 25 | 3B | | D13-2154-04 | GEAR | |
| 26 | 3B | | D13-2155-04 | WORM | |
| 27 | 3B | | D13-2156-14 | GEAR | |
| 28 | 3B | | D13-2157-04 | GEAR | |
| 29 | 3B | | D13-2158-04 | GEAR | |
| 30 | 3B | | D13-2168-04 | GEAR | |
| 31 | 3B | | D13-2171-04 | GEAR | |
| 32 | 2B | | D13-2172-03 | RACK (GEAR) | |
| 33 | 2A | | D14-0759-04 | ROLLER | |
| 35 | 2B | | D21-2382-04 | SHAFT | |
| 36 | 1A | | D23-0954-04 | RETAINER | |
| 37 | 1B | | D39-0246-05 | DAMPER | |
| 38 | 2B | | G01-3072-04 | EXTENSION SPRING | |
| 39 | 2A | | G01-3073-04 | TORSION COIL SPRING | |
| 40 | 2A | | G01-3074-04 | EXTENSION SPRING | |
| 41 | 1B | | G01-3075-04 | EXTENSION SPRING | |
| 42 | 2A | | G01-3076-04 | EXTENSION SPRING | |
| 43 | 1B | | G01-3077-04 | EXTENSION SPRING | |

**K1** : KDC-X869 **K2** : KDC-MP922

⚠ Indicates safety critical components.

# KDC-MP922/X869

## PARTS LIST

✻ New parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

### CD MECHANISM ASSY (X92-4670-01)

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| 44 | 2B | | G02-1399-04 | FLAT SPRING | |
| 45 | 2B | | G02-1408-04 | FLAT SPRING | |
| 51 | 1A | | J21-9676-22 | MOUNTING HARDWARE | |
| 52 | 3B | | J21-9677-02 | MOUNTING HARDWARE | |
| 53 | 1B | | J21-9678-03 | MOUNTING HARDWARE | |
| 55 | 1A | | J90-1001-11 | GUIDE | |
| 56 | 1B | | J90-1023-03 | GUIDE | |
| A | 2B | | N09-4460-05 | TAPTITE SCREW (OVAL P TAPTIT) | |
| B | 1B | | N09-4472-05 | MACHINE SCREW (M1.7X8.5) | |
| C | 2B | | N09-6004-05 | MACHINE SCREW (M1.7X2.5 IB-L) | |
| E | 2B | | N09-6007-05 | MACHINE SCREW (PAN M2X2) | |
| F | 1A | | N09-6051-05 | TAPTITE SCREW (BIND P 2X5) | |
| G | 2A | | N19-2163-04 | FLAT WASHER | |
| H | 1B | | N39-2020-46 | PAN HEAD MACHIN SCREW | |
| J | 1B | | N09-6108-05 | MACHINE SCREW (M2✻3.5TYPE3) | |
| DM1 | 3B | | T42-1066-04 | DC MOTOR ASSY (SP) | |
| DM2 | 2B | | T42-1067-04 | DC MOTOR ASSY (LO) | |
| DPU1 | 2D | | X93-2010-00 | OPTICAL PICKUP ASSY | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|

**K1** : KDC-X869 **K2** : KDC-MP922

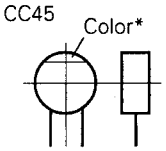
⚠ Indicates safety critical components.

# PARTS LIST

## CAPACITORS

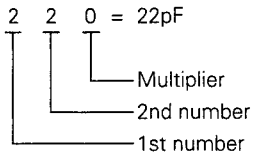
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, etc.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance




**• Capacitor value**

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF




**• Temperature coefficient**

| 1st Word | C | L | P | R | S | T | U |
|---|---|---|---|---|---|---|---|
| Color* | Black | Red | Orange | Yellow | Green | Blue | Violet |
| ppm/°C | 0 | −80 | −150 | −220 | −330 | −470 | −750 |

| 2nd Word | G | H | J | K | L |
|---|---|---|---|---|---|
| ppm/°C | ±30 | ±60 | ±120 | ±250 | ±500 |

Example : CC45TH = −470±60ppm/°C

**• Tolerance (More than 10pF)**

| Code | C | D | G | J | K | M | X | Z | P | No code |
|---|---|---|---|---|---|---|---|---|---|---|
| (%) | ±0.25 | ±0.5 | ±2 | ±5 | ±10 | ±20 | +40 | +80 | +100 | More than 10μF : −10~+50 |
| | | | | | | | −20 | −20 | −0 | Less than 4.7μF : −10~+75 |

**(Less than 10pF)**

| Code | B | C | D | F | G |
|---|---|---|---|---|---|
| (pF) | ±0.1 | ±0.25 | ±0.5 | ±1 | ±2 |

**• Voltage rating**

| 1st word \ 2nd word | A | B | C | D | E | F | G | H | J | K | V |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.0 | 1.25 | 1.6 | 2.0 | 2.5 | 3.15 | 4.0 | 5.0 | 6.3 | 8.0 | – |
| 1 | 10 | 12.5 | 16 | 20 | 25 | 31.5 | 40 | 50 | 63 | 80 | 35 |
| 2 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | – |
| 3 | 1000 | 1250 | 1600 | 2000 | 2500 | 2150 | 4000 | 5000 | 6300 | 8000 | – |

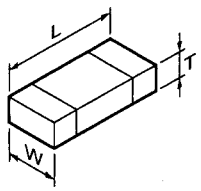
## CHIP CAPACITORS

(EX) CC 73 F SL 1H 000 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) CK 73 F F 1H 000 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

**• Dimension**




**Chip capacitor**

| Code | L | W | T |
|---|---|---|---|
| Empty | 5.6±0.5 | 5.0±0.5 | Less than 2.0 |
| A | 4.5±0.5 | 3.2±0.4 | Less than 2.0 |
| B | 4.5±0.5 | 2.0±0.3 | Less than 2.0 |
| C | 4.5±0.5 | 1.25±0.2 | Less than 1.25 |
| D | 3.2±0.4 | 2.5±0.3 | Less than 1.5 |
| E | 3.2±0.2 | 1.6±0.2 | Less than 1.25 |
| F | 2.0±0.3 | 1.25±0.2 | Less than 1.25 |
| G | 1.6±0.2 | 0.8±0.2 | Less than 1.0 |
| H | 1.0±0.05 | 0.5±0.05 | 0.5±0.05 |

**Chip resistor**

| Code | L | W | T |
|---|---|---|---|
| E | 3.2±0.2 | 1.6±0.2 | 1.0 |
| F | 2.0±0.3 | 1.25±0.2 | 1.0 |
| G | 1.6±0.2 | 0.8±0.2 | 0.5±0.1 |
| H | 1.0±0.05 | 0.5±0.05 | 0.35±0.05 |

## RESISTORS

**• Chip resistor (Carbon)**

(EX) RD 73 E B 2B 000 J
1 2 3 4 5 6 7
(Chip) (B, F)

**• Carbon resistor (Normal type)**

(EX) RD 14 B B 2C 000 J
1 2 3 4 5 6 7
(Chip) (B, F)

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, etc.
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

**• Rating wattage**

| Code | Wattage | Code | Wattage | Code | Wattage |
|---|---|---|---|---|---|
| 1J | 1/16W | 2C | 1/6W | 3A | 1W |
| 2A | 1/10W | 2E | 1/4W | 3D | 2W |
| 2B | 1/8W | 2H | 1/2W | | |

# KDC-MP922/X869

## SPECIFICATIONS

FM

- Frequency Range (Frequency step) ..... 87.9MHz~107.9MHz (200kHz)
- Channel Space Selection ..... 50kHz/200kHz
- Usable Sensitivity (S/N 30dB) ..... 9.3dBf (0.8μV/75Ω)
- Quieting Sensitivity (S/N 50dB) ..... 15.2dBf (1.6μV/75Ω)
- Frequency Response (±3.0dB) ..... 30Hz~15kHz
- S/N ..... 70dB (MONO)
- Selectivity ..... ≥ 80dB (±400kHz)
- Stereo Separation ..... 40dB (1kHz)

AM

- Frequency Range (Frequency step) ..... 530kHz~1700kHz (10kHz)
- Channel Space Selection ..... 9kHz/10kHz
- Usable Sensitivity (S/N 20dB) ..... 28dBμ (25μV)

CD

- Laser Diode ..... GaAlAs (λ=780nm)
- Digital Filter (D/A) ..... 8 Times Over Sampling
- D/A Converter ..... 1 Bit
- Spindle Speed (CD-DA) (MP3) ..... 1000~400rpm (CLV. 2 times)
- Wow & Flutter ..... Below Measurable Limit
- Frequency Response ..... 10Hz~20kHz (±1dB)
- Total Harmonic Distortion ..... 0.01% (1kHz)
- S/N Ratio ..... 105dB (1kHz)
- Dynamic Range ..... 93dB
- Channel Separation ..... 95dB
- MP3 Decode ..... Compliant with MPEG-1.0/2.0/2.5 Audio Layer-3

Preout Level/Load (Unbalanced) ..... 5000mV/10kΩ (CD/CD-CH)

Preout Impedance ..... 80Ω

AUX Input

- Frequency Response ..... 20Hz~20kHz±1dB
- Input Maximum Voltage ..... 1200mV
- Input impedance ..... 100kΩ

Amplifier

- Maximum Power ..... 50Wx4
- Full Bandwidth Power (at less than 1% THD) ..... 22Wx4

Tone

- Bass ..... 100Hz±10dB
- Middle ..... 1kHz±10dB
- Treble ..... 10kHz±10dB

General

- Operating Voltage (11V~16V allowable) ..... 14.4V
- Current Consumption ..... 10A
- Installation Size (WxHxD) ..... 178x50x165 (mm)
  ..... 7x1-15/16x6-1/2 (in)
- Weight ..... 3.75lbs (1.70kg)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.


KENWOOD CORPORATION
2967-3, Ishikawa-machi, Hachioji-shi, Tokyo 192-8525, Japan

KENWOOD USA CORPORATION
P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.
Alameda Ministro Rocha Azevedo No. 456,
Edificio Jaú, 10o Andar, Cerqueira César, Cep 0140-001,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED
Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.
13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.
Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)
16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,
Hong Kong

KENWOOD ELECTRONICS GULF FZE
P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.
2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.
1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan,
Malaysia

CD MECHANISM ASSY

# X92-4030-0x
# X92-4440-0x
# SERVICE MANUAL

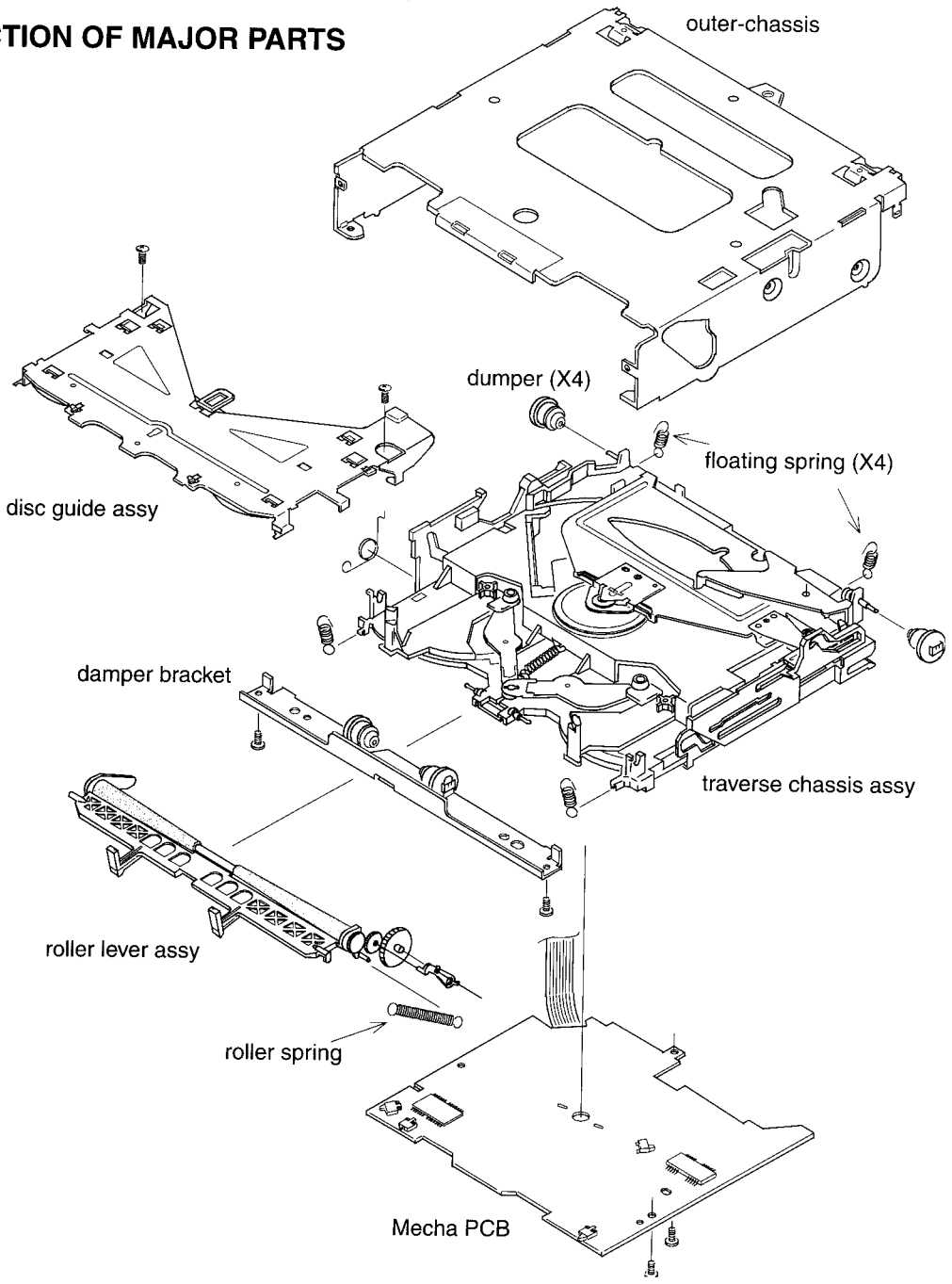
KENWOOD

© 2001-12 PRINTED IN JAPAN
B51-7867-00 (N) 3417

## DESCRIPTION MECHANISM

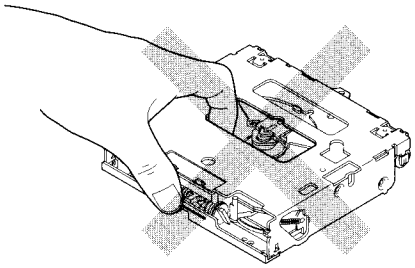
X92-4030-00 (DXM-6000W) X92-4440-00 (DXM-6100W)
X92-4030-01 (DXM-6001W) X92-4440-01 (DXM-6101W)
X92-4030-02 (DXM-6002W) X92-4440-02 (DXM-6102W)
X92-4030-03 (DXM-6003W) X92-4440-03 (DXM-6103W)
X92-4030-04 (DXM-6004W) X92-4440-04 (DXM-6104W)
X92-4030-05 (DXM-6005W) X92-4440-05 (DXM-6105W)

## CONSTRUCTION OF MAJOR PARTS

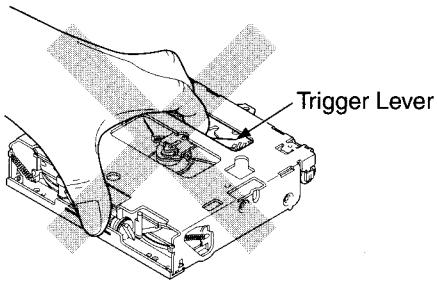



40%

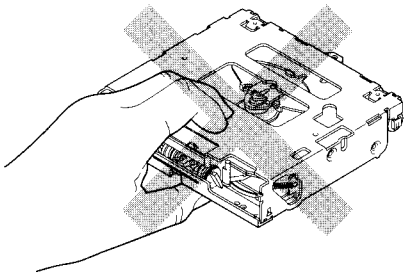
# X92-4030-0x
# X92-4440-0x NOTE FOR HANDLING MECHANISM ASSY



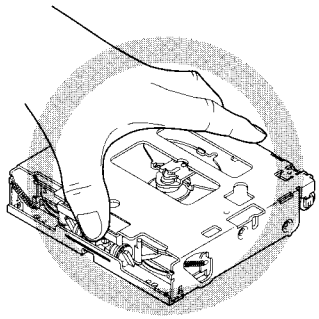
**NG** Pick is under the finger, it may touch.



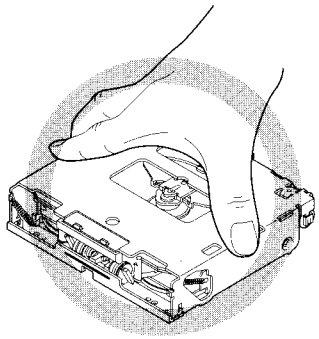

**NG** Don't touch the lever because the trigger lever comes off.



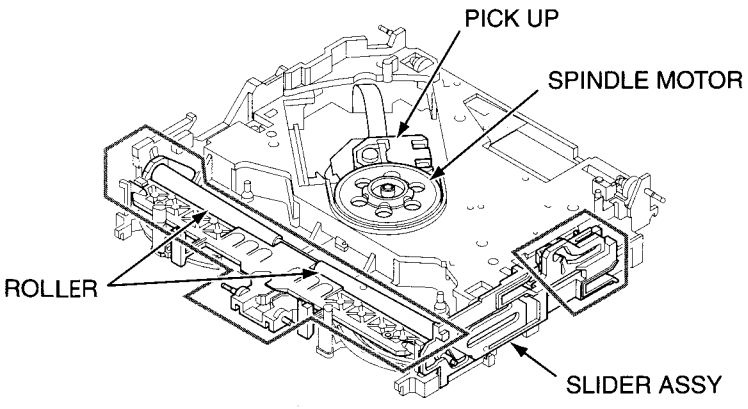
**NG** Don't have the center of entrance because the disc insertion mouth is transformed.



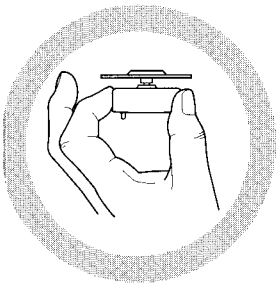
**OK**



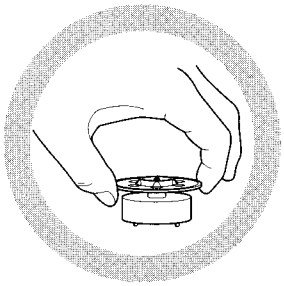
**OK**



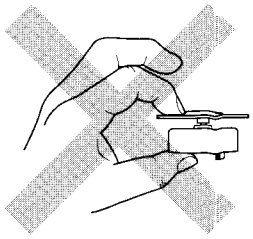

- Don't touch in the frame, since grease is applied to the parts.
- Don't applied grease to the roller.
- Don't touched PICK and SPINDLE MOTOR.



**OK**

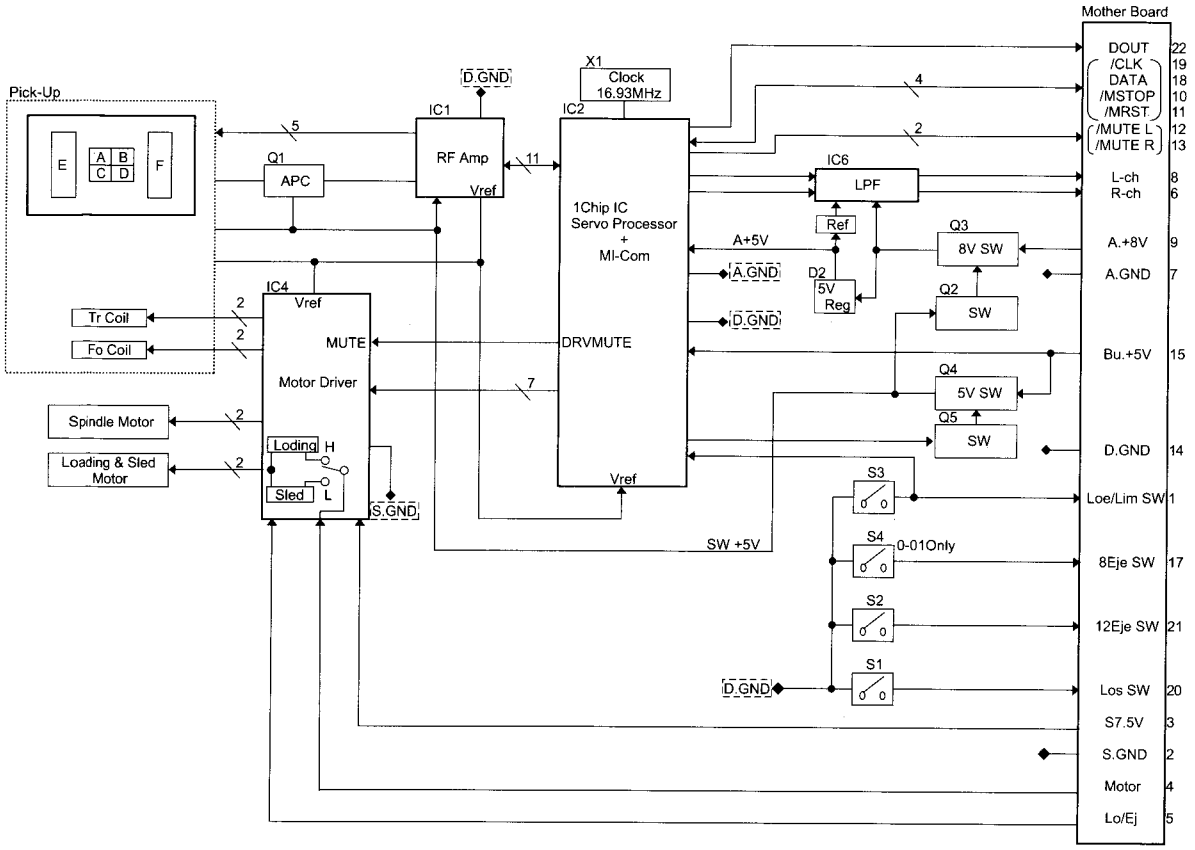


**OK**



**NG**

# BLOCK DIAGRAM




# COMPONENTS DESCRIPTION

**●CD PLAYER UNIT (X32-5170-0x/X32-5190-0x)**

| Ref.No. | Application/Function | Operation/Condition/Compatibility |
|---|---|---|
| IC1 | CD-RW compatible RF amplifier | Generation of RF and servo error (focusing error, tracking error) signals based on the signals read from the APC circuit and pickup, detection of dropouts, anti-shock, track crossing and off-track signals, and gain switching for CD-RW. |
| IC2 | CD signal processor LSI + Mechanism u-COM | Focusing, tracking, sled and spindle servo processing, automated processing (focusing, tracking, gain, offset and balance), digital signal processing (DSP, PLL, subcode, CIRC error correction and audio data interpolation),<br>Text function (MN662773kH2), and microcomputer function |
| IC4 | 4-CH BTL driver | Drive of the focusing coil, tracking coil, sled motor and spindle motor, plus loading and ejection operations. |
| IC6 | Audio active filter | Secondary LPF |
| Q1 | For APC (Auto Power Control) | LD drive. |
| Q2 | Q3 SW | ON when P-ON = "H" (when SW +5 V is ON). |
| Q3 | A.8V SW | ON when P-ON = "H" (when Q2 is ON). |
| Q4 | D.5V SW | ON when P-ON = "H" (when Q5 is ON). |
| Q5 | Q4 SW(P-ON) | ON when P-ON = "H". |
| D1 | Pickup laser diode protection | |
| D2 | D/A converter power supply diode | A.8V → A.5V |
| D3 | For static protection | |
| D4 | For forced gain boost (tracking servo) | |

*P-ON: Pin 82 of IC2.

# X92-4030-0x
# X92-4440-0x MICROCOMPUTER'S TERMINAL DESCRIPTION

●Mechanism Microcomputer (IC2 : X32-5170-0x, X32-5190-0x)

| Pin No. | Name. | I/O | Description | Processing Operation |
|---|---|---|---|---|
| 1 | BDO | I | Dropout signal input. H: Detected. | Photodetector signal input 1. |
| 2 | OFT | I | Off-track signal input. H: Detected. | Photodetector signal input 2. |
| 3 | /RFDET | I | RF detection signal input. H: Detected. | Photodetector signal input 3. |
| 4 | VDET | I | Vibration detection signal input. H: Detected. | Photodetector signal input 4. |
| 5 | LDON | O | Laser diode ON signal output. H: ON. | Photodetector RF signal add input. |
| 6 | NC | - | No connection. | RF amp filter terminal 1. |
| 7 | NC | - | No connection. | RF amp filter terminal 2. |
| 8 | AVSS3 | I | Analog circuit GND. | |
| 9 | AVDD3 | I | Analog circuit power supply. | |
| 10 | FBAL | O | Focusing balance adjustment output. | Laser diode monitor input. |
| 11 | TBAL | O | Tracking balance adjustment output. | Laser diode drive output. |
| 12 | FE | I | Focusing error signal input (D/A input). | |
| 13 | NC | - | No connection. | Tracking filter terminal 1. |
| 14 | NC | - | No connection. | Tracking filter terminal 1. |
| 15 | TE | I | Tracking error signal input (analog input). | |
| 16 | NC | - | No connection. | Track cross comparator filter terminal. |
| 17 | NC | - | No connection. | |
| 18 | NC | - | No connection. | RF signal input (for RF detection). |
| 19 | RFENV | I | RF envelope signal input. | |
| 20 | VREF | I | VREF input. | |
| 21 | ARF | I | RF signal input (for DSL). | |
| 22 | DRF | I | DSL bias terminal. | |
| 23 | DSLF | I/O | DSL loop filter terminal. | |
| 24 | IREF | I | Reference current input. | |
| 25 | PLLF | I/O | PLL loop filter terminal. | |
| 26 | PLLF2 | I/O | PLL loop filter characteristic switching terminal. | |
| 27 | VCOF | I/O | VCO loop filter terminal. | |
| 28 | VCOF2 | I/O | Digital servo 33.8688 MHz generation (VCO loop filter terminal). | |
| 29 | TRV | O | Traverse forced feed output. | |
| 30 | TVD | O | Traverse drive output. | |
| 31 | PC | O | Spindle motor ON output. L: ON. | |
| 32 | ECM | O | Spindle motor drive output (forced mode output) (D/A output). | |
| 33 | ECS | O | Spindle motor drive output (servo error signal output). | |
| 34 | KICK | O | Kick pulse output. | |
| 35 | TRD | O | Tracking drive output. | |
| 36 | FOD | O | Focusing drive output. | |
| 37 | TOFS | O | Tracking offset adjustment output. | |
| 38 | AVDD2 | I | Analog circuit power supply (for DSL, PLL, AD and DA circuits). | |
| 39 | AVSS2 | I | Analog circuit GND. | |
| 40 | DVSS2 | I | Digital circuit GND. | |
| 41 | EFM or CK384 | O | EFM signal output. | When command is executed: 16.9344 MHz clock output. |
| 42 | PCK or DSLB | O | PLL sampling clock output. | When command is executed: DSL balance output. |
| 43 | /CLDCK | O | Subcode frame clock signal output. | |
| 44 | FCLK | O | X'tal frame clock signal output. | |
| 45 | IPFLAG | O | Interpolation flag signal output. H: Interpolated. | |
| 46 | FLAG | O | Flag signal output. | |
| 47 | TRCRS | I | Track crossing signal input. | Track crossing signal output. |
| 48 | STOUT | O | Serial data output for monitor signal (OFT, VDET, BDO, RFDET, etc.) | |
| 49 | STLD | O | Load signal output for monitor signal. | |
| 50 | SMCK | O | Bit clock signal output for monitor signal. | |

# MICROCOMPUTER'S TERMINAL DESCRIPTION

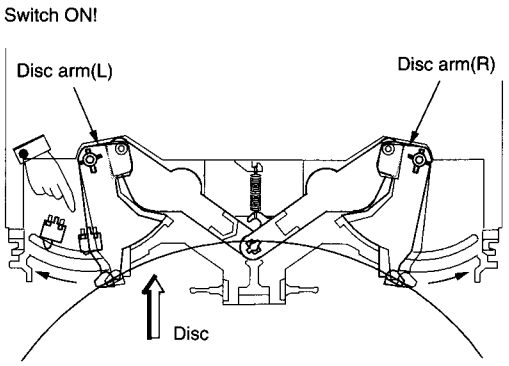
| Pin No. | Name. | I/O | Description | Processing Operation |
|---|---|---|---|---|
| 51 | CSEL | I | X'tal oscillation frequency selection terminal, which is fixed at L. H: 33.8688 MHz. L: 16.9344 MHz. | |
| 52 | TEST1 | I | Test pin 1. Fixed at L (normal position). | |
| 53 | TEST2 | I | Test pin 2. Fixed at L (normal position). | |
| 54 | IOSEL | I | Audio DAC external data input mode selection terminal. | |
| 55 | /NRST | I | Reset input. L: Reset. | |
| 56 | BCLK | O | SRDATA bit clock output. | |
| 57 | LRCK | O | L/R identification signal output. | |
| 58 | SRDATA | O | Serial data output. | |
| 59 | SUBC | O | Subcode serial output. | |
| 60 | SBCK | I | Subcode serial output clock input. | |
| 61 | DQSY | O | CD-TEXT read permission signal output. | |
| 62 | DEMPH | O | De-emphasis detection signal output. H: ON. | |
| 63 | TX | O | Digital audio interface signal output. | |
| 64 | SRDATAIN | I | SRDATA input/test terminal. | |
| 65 | LRCKIN | I | LRCK input/SMCK output frequency switching. | |
| 66 | BCLKIN | I | BCLK input. When not used: VDD. | |
| 67 | DVDD1 | I | Digital circuit power supply. | |
| 68 | X1 | I | X'tal oscillator input terminal. | |
| 69 | X2 | O | X'tal oscillator output terminal. | |
| 70 | DVSS1 | I | Digital circuit GND. | |
| 71 | XSUB1 | I | Microcomputer clock input terminal. | |
| 72 | XSUB2 | O | Microcomputer clock output terminal. | |
| 73 | DVDD2 | I | Digital circuit power supply. | |
| 74 | NC | O | No connection. | |
| 75 | NC | O | No connection. | |
| 76 | 73/74SEL | I | 73/74 selection port. | |
| 77 | DRV_MUTE | O | Driver muting control terminal. | |
| 78 | NC | O | No connection. | |
| 79 | NC | O | No connection. | |
| 80 | TEST | I | Test mode switching terminal. | |
| 81 | ASEL | I | Audio output polarity detection terminal. | |
| 82 | PON | O | Audio/digital power supply control terminal. | |
| 83 | SEARCH | O | Servo IC gain switching control terminal. | |
| 84 | EQCNT | O | RF amp double-speed switching control terminal. | |
| 85 | SW3 | I | Limit switch detection terminal. | |
| 86 | /MUTE_L | O | L-CH analog muting control terminal. | |
| 87 | /MUTE_R | O | R-CH analog muting control terminal. | |
| 88 | CD_RW | O | CD-RW control terminal. | |
| 89 | /RST | I | System reset input terminal. | |
| 90 | MECHASEL | I | 6000/6010 selection port. | L=6000 H=6010 |
| 91 | /MSTOP | I | Standby detection terminal. | |
| 92 | LDCNT | O | LD control terminal. | |
| 93 | DATA | I/O | I2C bus data line (communication line with System controller). | |
| 94 | /CLK | I/O | I2C bus clock data line (communication line with System controller). | |
| 95 | HOT | I | Temperature protection detection terminal. | |
| 96 | VREF+ | I | A/D converter + power supply. | |
| 97 | OUTR | O | R-channel audio output. | |
| 98 | AVDD1 | I | Analog circuit power supply (for audio output circuits of both L and R channels). | |
| 99 | OUTL | O | L-channel audio output. | |
| 100 | AVSS1 | I | Analog circuit GND (for audio output circuits of both L and R channels). | |

# OPERATION DESCRIPTION

## [1] Disc Loading

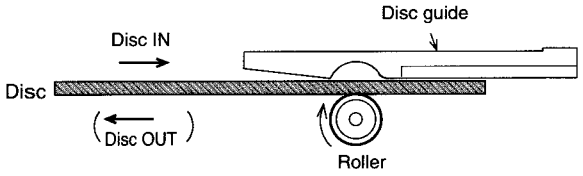
### (1) Turning the loading switch ON

1) When a disc is inserted, the disc arms open to the left and right and the claw below disc arm (L) sets the loading switch ON.
2) The above starts the motor rotation.

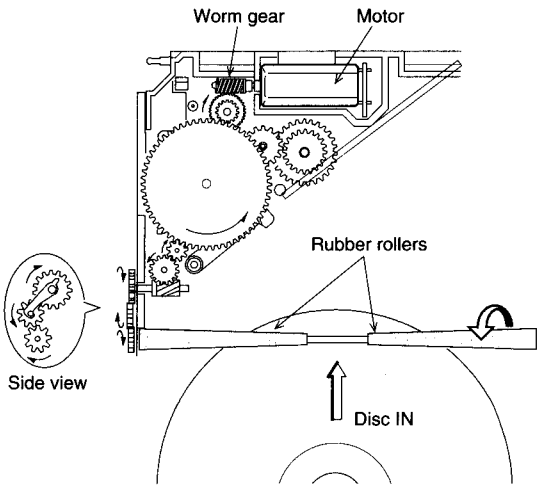



### (2) Loading the disc

1) When the motor starts rotation, the worm gear also starts to turn as shown in the figure.
2) The rotation force is transmitted to the gear train.
3) When the force is transmitted to the final gear, the rollers rotate to pull in the disc.




The disc is pulled in or out when the rollers are pushed against the disc guide.



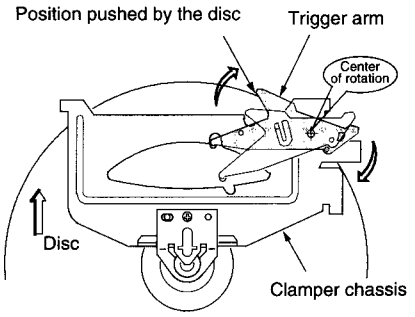

## [2] Operation of Slider (R)

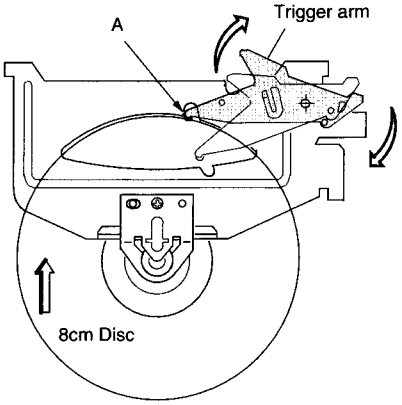
### (1) Activating the trigger arm

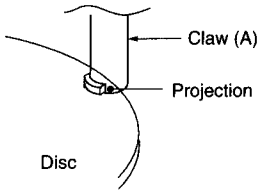
1) When the disc is pulled in by the rollers, the disc edge pushes the trigger arm and rotates it.

2) When the disc is an 8cm disc, it is pulled upwards by the tapering on the disc guide. The trigger arm is rotated when the disc pushes the claw (section A) located before the trigger arm.

When the 8cm disc reaches the loading end position, the roller areas supporting the disc decreases. To prevent the disc from dropping in this case, the claw is provided with a projection for supporting the disc.

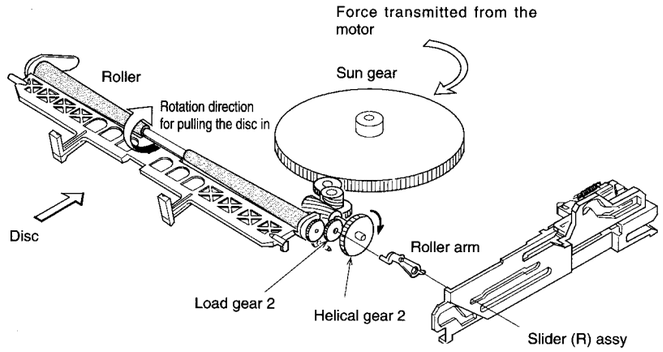


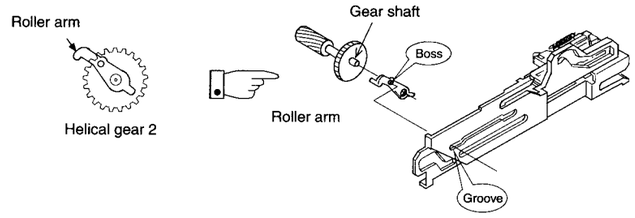
3) Rotation of rollers during disc loading

As shown in the following figure, the motor rotation force is transmitted through sun gear → helical gear 2 → load gear 2 to the gear that is coupled directly with the roller shaft to rotate the rollers and pull in the disc.

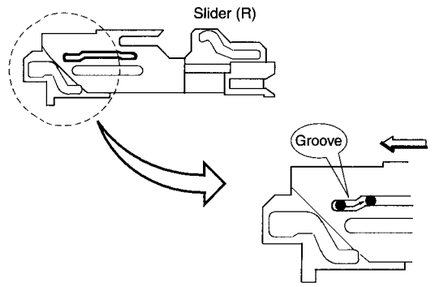



**(2) How to stop the roller rotation**

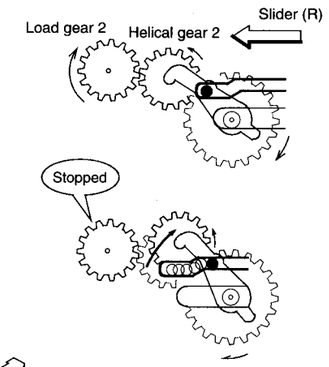
The boss of the roller arm is engaged with a groove on slider (R).




When slider (R) moves, the boss of the roller arm moves along the groove of slider (R), thereby separating the helical gear 2 coupled with it from load gear 2.



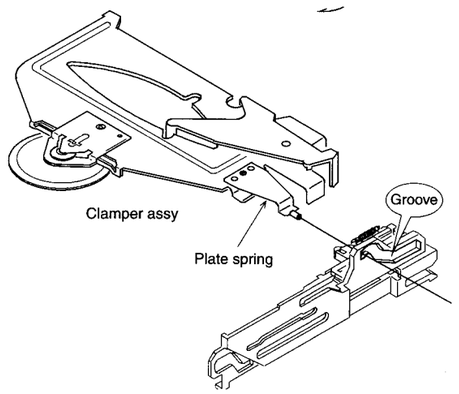

This stops transmission of the force to the rollers so the rollers stop.




**(3) Operation of the clamper (Disc chucking)**

1) Engaged condition

The plate spring attached to the clamper chassis is originally engaged with a groove on slider (R).





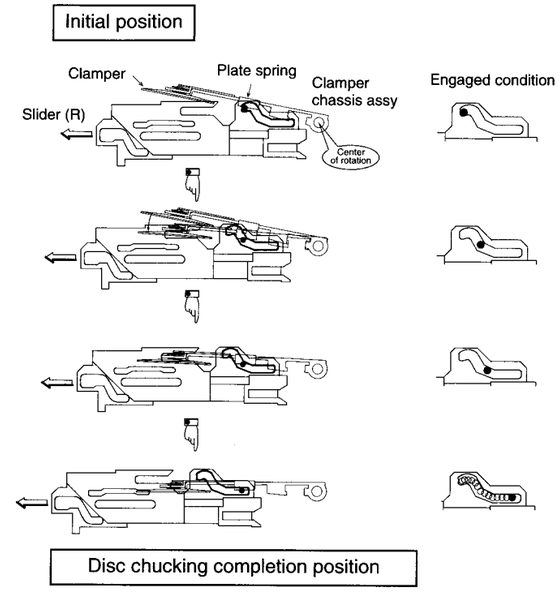

X92-4030-0x
X92-4440-0x



2) Lowering the clamper (for disc chucking)

As slider (R) moves, the plate spring section engaged with it moves along its groove and lowers the clamper chassis assembly.

The following figure shows the flow of operation.

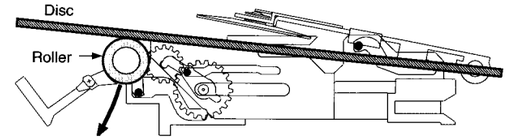



**(4) How to lower the rollers**

1) Disc chucking completion position

When the disc in this position, the rollers are located below the disc and in contact with it.

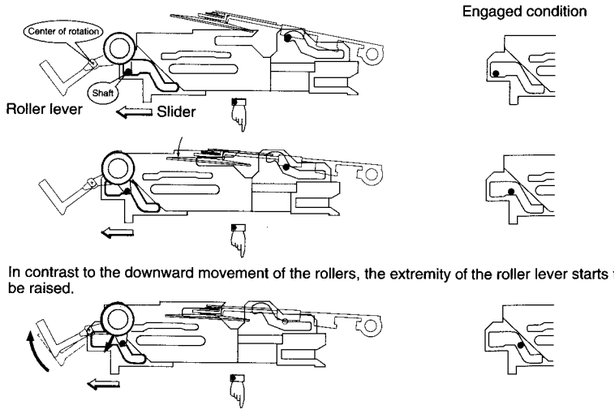
To rotate the disc for playback, it is required to separate the rollers from the disc.




2) Lowering the rollers (Disc playback position)

As slider (R) moves, the roller lever shaft engaged with a groove on slider (R) moves along the groove and lowers the rollers.

The following figure shows the flow of operation.

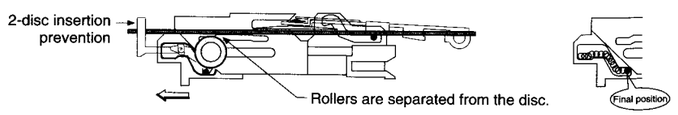



In contrast to the downward movement of the rollers, the extremity of the roller lever starts to be raised.



At the lowest position of the rollers

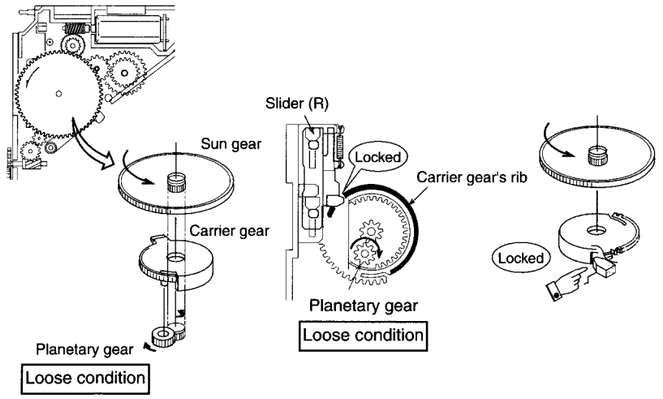
The roller lever extremity comes in the position shown in the figure. Here, it plays a role of stopper for preventing insertion of more than one disc.



# OPERATION DESCRIPTION

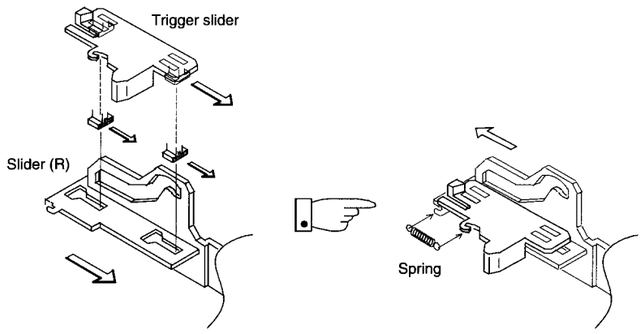
**(2) Basic construction (Initial position of the planetary gear mechanism)**

1) Even after the disc has been inserted, the motor rotated and the gear train also rotated, slider (R) does not start operation yet.This is because the planetary gear mechanism is used and the carrier gear is locked by the slider mechanism. In this period, the planetary gear is in the loose condition.
2) When the sun gear is rotating and the carrier gear is locked, the planetary gear is running idle.




**(3) Basic construction (Construction of the trigger slider and slider (R))**

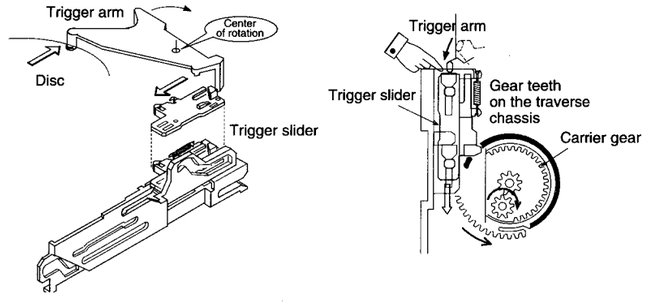
The trigger slider is assembled with slider (R) and pushed in the direction of the arrow by the force of a spring.




**(4) Operation of slider (R)**

1) Activating the trigger slider

When the trigger arm is rotated by the pressure of the disc, the trigger arm pushes the trigger slider.

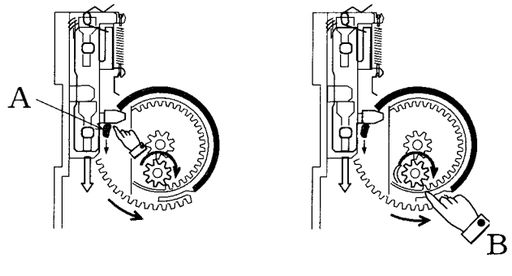



2) Rotating (engaging) the planetary gear

When the trigger slider is moved, it pushes down the wall (section A) of the carrier gear. (Initial rotation of the carrier gear)

This causes the planetary gear, which is attached on a pin of the carrier gear, to move according to the rotation of the carrier gear. When the planetary gear is meshed with a gear tooth (section B) of the traverse chassis, the planetary gear starts rotation.

The rotation of the planetary gears causes the carrier gear to rotate.





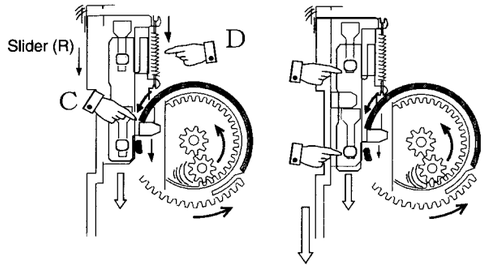

X92-4030-0x
X92-4440-0x

# OPERATION DESCRIPTION

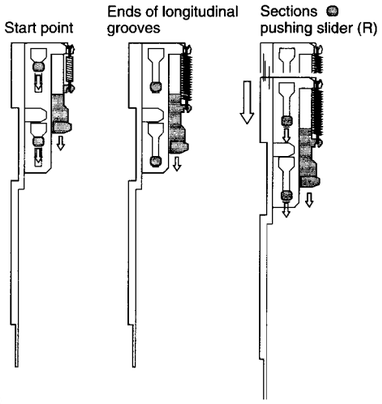
3) Activating slider (R)

When the carrier gear rotates, its wall (section C) pushes and moves the trigger slider.

When the trigger slider is moved, slider (R) is pulled by the force of spring (section D).




When the trigger slider moves along the longitudinal grooves on slider (R) till the ends of grooves, the trigger slider itself begins to push and move slider (R).




## [3] Flow Until Disc Chucking (Playback Standby Condition)

**(1) Functions activated by slider (R)**

1) Operation modes

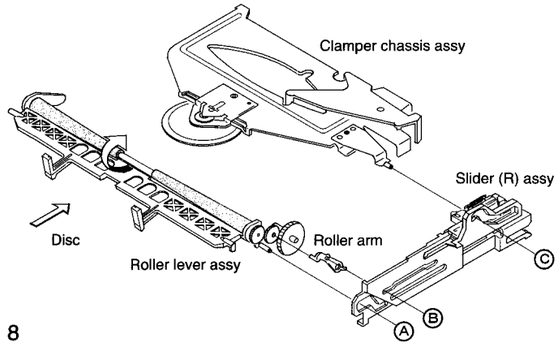
To play back a CD, it is required to perform a flow of operations as shown below.

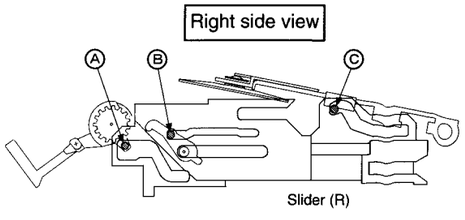
- Pulling the disc in and stopping the roller rotations after it.
- Moving the clamper downwards so that it can clamp the disc during playback. (Disc chucking)
- Moving the rollers that are in contact with the disc. (Lowering the roller lever)
- Float (suspend) the mechanism in order to protect it from vehicle vibrations during disc playback.
- Moving the pickup (optical ass'y) so that it can reads the disc signals.

These series of operations are activated by the movement of slider (R).

2) Coupling conditions

The parts used for performing the above functions are coupled with slider (R) as shown below.



# OPERATION DESCRIPTION

**(5) Floating position and lock position of the mechanism**

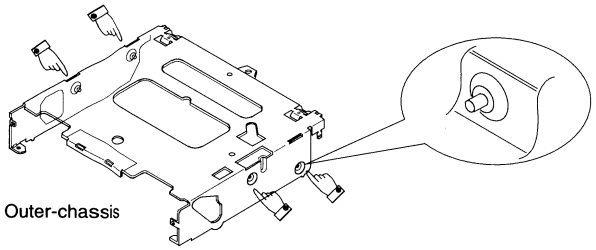
The disc is loaded and ejected by rotation of the rollers that come in close contact with the disc.

After the disc has been pulled in by the rollers, its position should be adjusted so that it can be placed precisely on the turntable of the traverse chassis. To make this possible, the traverse chassis and outer chassis should be in the locked condition.

Since the outer chassis is originally locked on the main unit, if the traverse chassis is also locked during playback, the disc would be subjected directly to vibrations of vehicle during driving and the disc signal would be hindered, making the audio intermittent or impossible to be played.

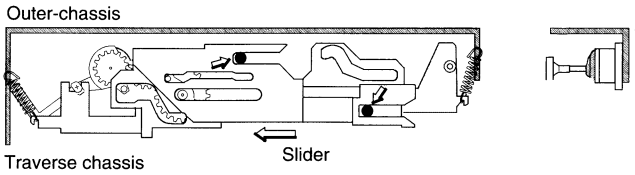
To prevent such a problem, the traverse chassis is suspended from the outer case using springs or rubber dampers during driving. This positioning protects the disc playback operations and is referred to as the floating position.

Shafts for locking the traverse chassis (Outer case-integrated design)
(4 shafts)

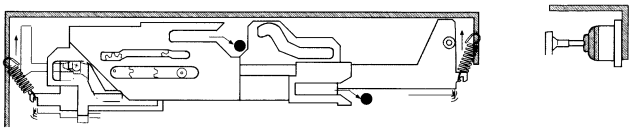



Mechanism lock position

The shafts of the outer chassis are inserted into the grooves on the sliders.




Mechanism floating position




**(6) Function of slider (L)**

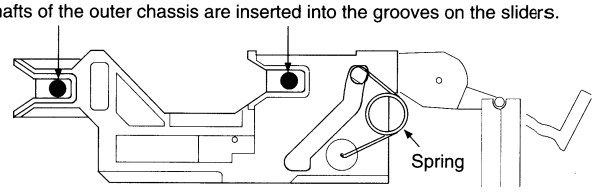
Slider (L) ensures the mechanism lock position because the shafts of the outer chassis are inserted into its grooves in the same way as they are inserted into the grooves on slider (R).

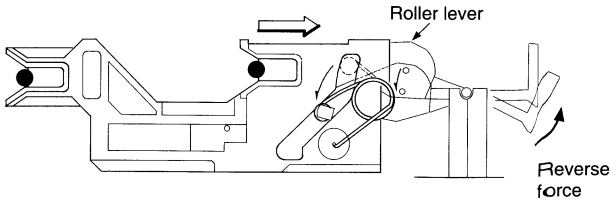
As slider (R) moves, the force moving the roller lever is transmitted to slider (L), which also starts the sliding movement.

When the spring is compressed gradually to a certain point, the force changes to a reverse force, which supports the jump-up operation of the roller lever.

Mechanism lock position

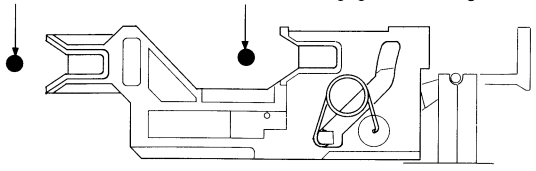
The shafts of the outer chassis are inserted into the grooves on the sliders.




Mechanism floating position

The shafts on the outer chassis are disengaged from the grooves on the slider.

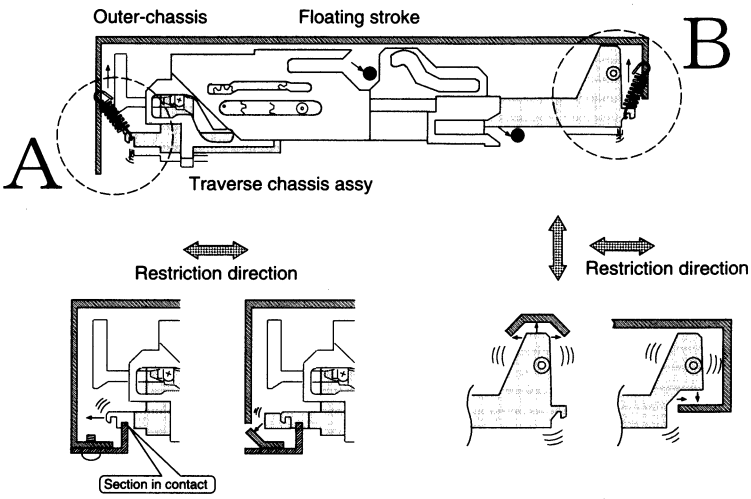


# OPERATION DESCRIPTION

**(7) Floating stroke**

When the traverse chassis assembly is in the mechanism floating position, stoppers should be provided between the outer case and traverse chassis assembly in order to prevent the mechanism from being damaged by vibrations and shocked of the vehicle.

The distance between the traverse chassis assembly and stoppers, that is, the range in which the traverse chassis assembly can move freely, is referred to as the floating stroke.

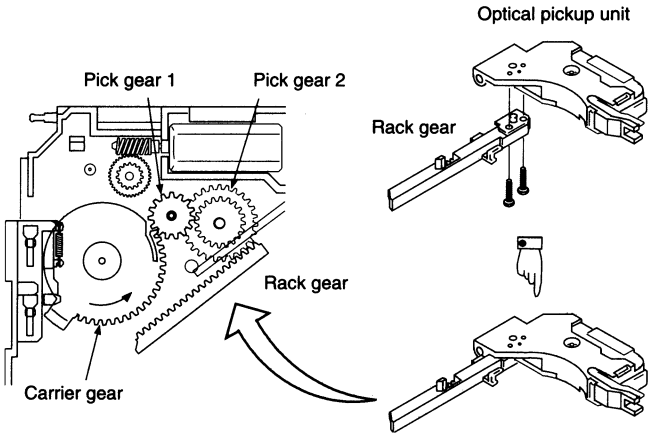



**(8) Operation of the pickup**

1) Construction

The optical pickup unit is attached on the rack gear.

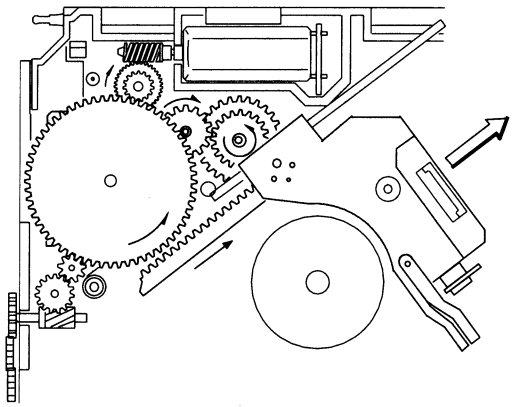
The following figure shows the positioning of the gears.

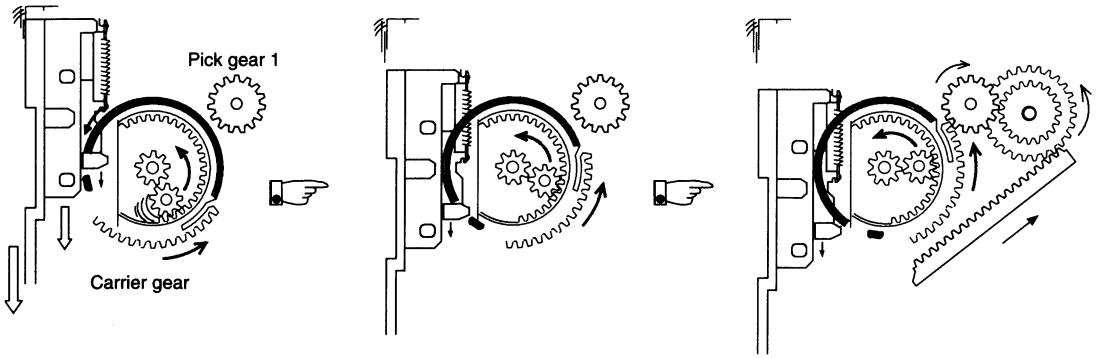



2) Activating the pickup

After the above series of operations have completed and the disc is put in the playback condition, the carrier gear rotates further and is meshed with pick gear 1. The force is then transmitted through pick gear 2 to the rack gear, causing the optical pickup unit to move.

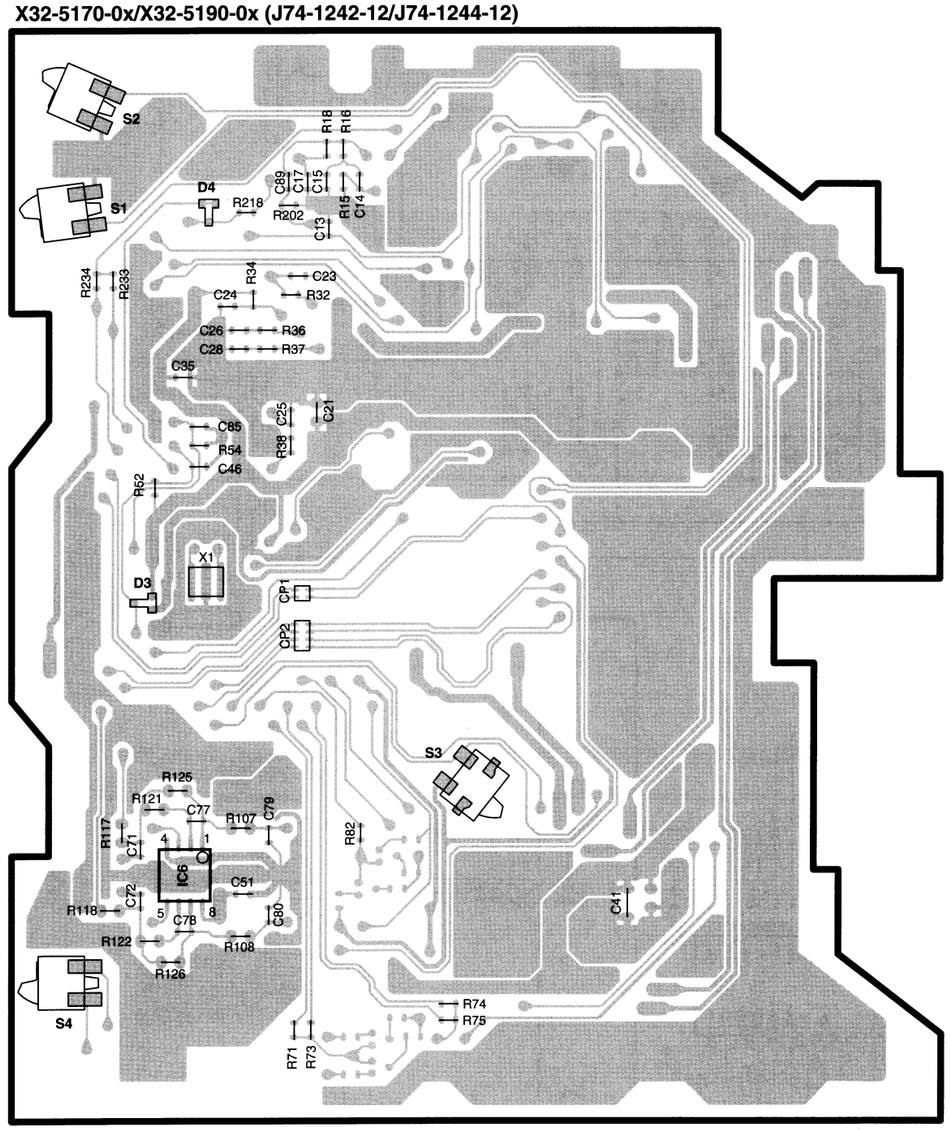
The operation of the optical pickup unit is controlled by the servo circuitry.





# PC BOARD (COMPONENT SIDE VIEW)

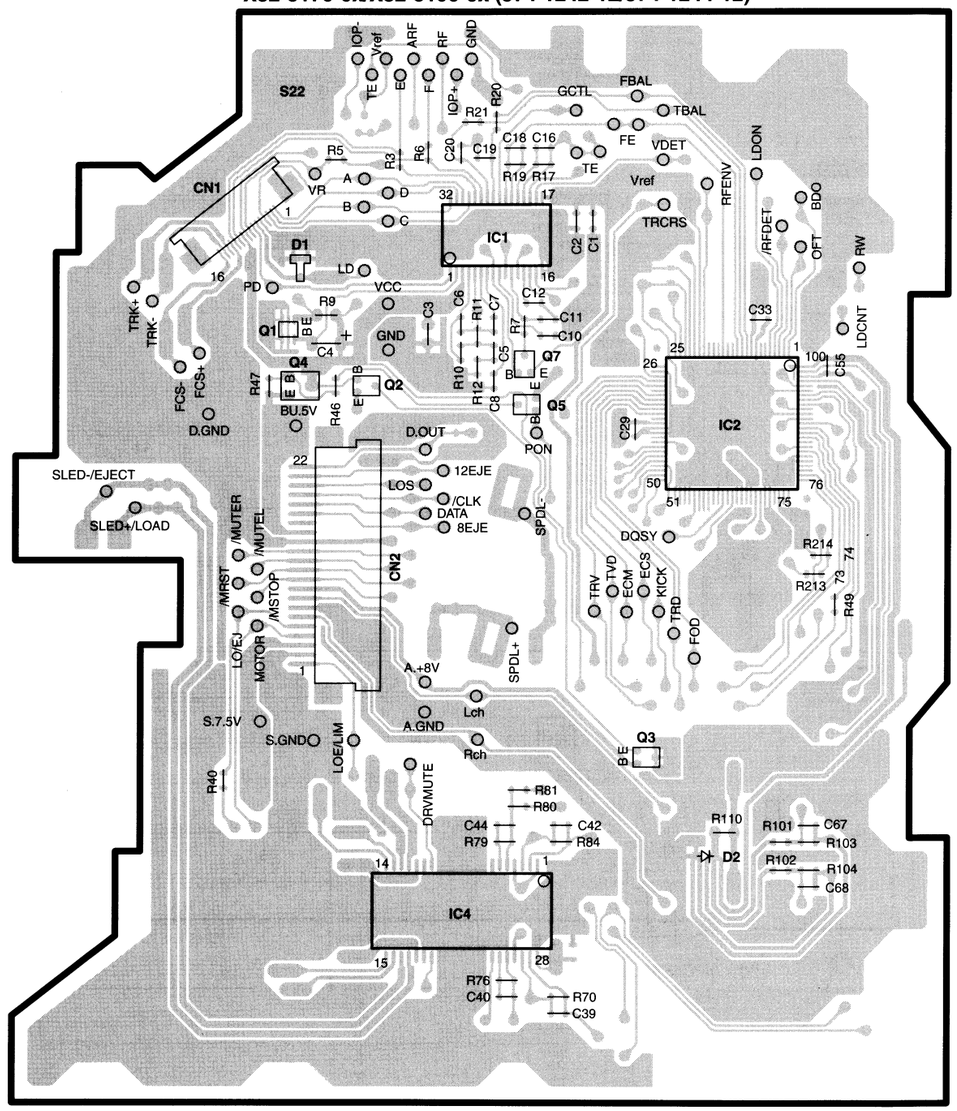
X32-5170-0x/X32-5190-0x (J74-1242-12/J74-1244-12)




| X32-5170-0x<br>X32-5190-0x | |
|---|---|
| IC | 6 |
| Q | |
| address | 5B |

# PC BOARD (FOIL SIDE VIEW)

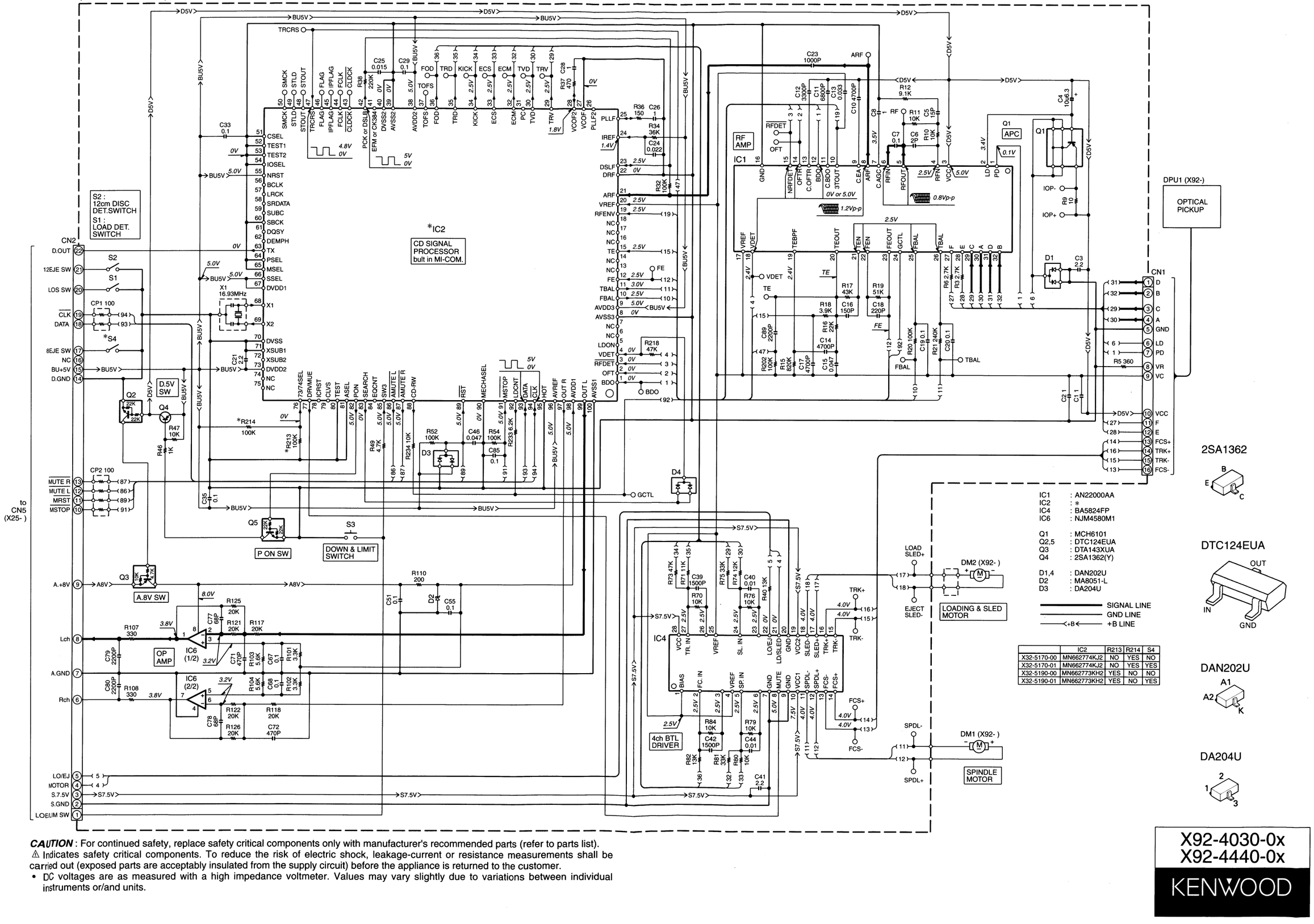
X32-5170-0x/X32-5190-0x (J74-1242-12/J74-1244-12)




| X32-5170-0x/X32-5190-0x | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| IC | 1 | 2 | 4 | | | | | |
| Q | | | | 1 | 2 | 3 | 4 | 5 |
| address | 3H | 3I | 5H | 3G | 3G | 5I | 3G | 3H |

Refer to the schematic diagram for the values of resistors and capacitors.

(X32-5170-0X/5190-0X)




| | IC2 | R213 | R214 | S4 |
|---|---|---|---|---|
| X32-5170-00 | MN662774KJ2 | NO | YES | NO |
| X32-5170-01 | MN662774KJ2 | NO | YES | YES |
| X32-5190-00 | MN662773KH2 | YES | NO | NO |
| X32-5190-01 | MN662773KH2 | YES | NO | YES |

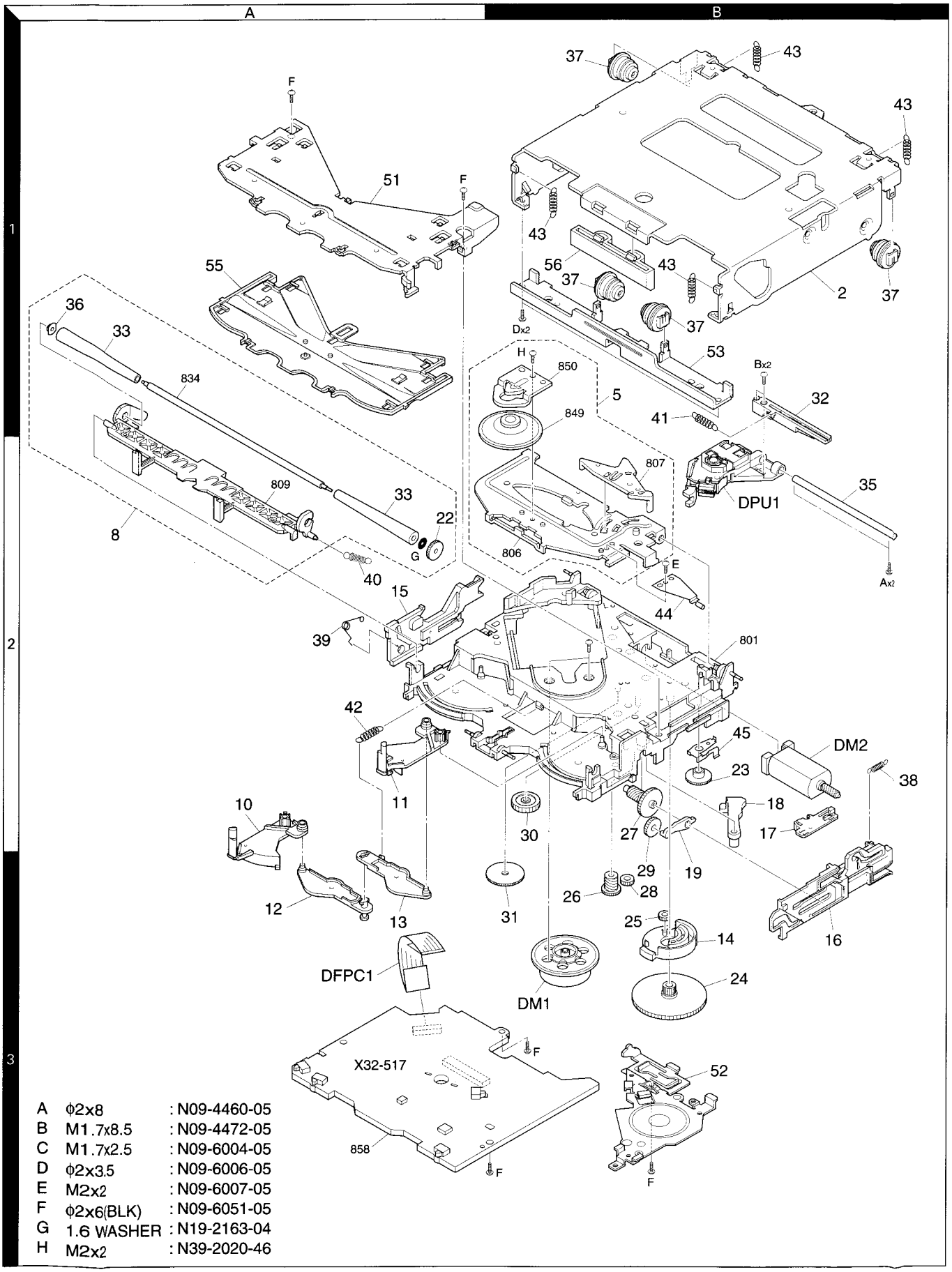
***CAUTION***: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**X92-4030-0x**
**X92-4440-0x**

KENWOOD

# EXPLODED VIEW




| | | |
|---|---|---|
| A | φ2x8 | : N09-4460-05 |
| B | M1.7x8.5 | : N09-4472-05 |
| C | M1.7x2.5 | : N09-6004-05 |
| D | φ2x3.5 | : N09-6006-05 |
| E | M2x2 | : N09-6007-05 |
| F | φ2x6(BLK) | : N09-6051-05 |
| G | 1.6 WASHER | : N19-2163-04 |
| H | M2x2 | : N39-2020-46 |

**Parts with the exploded numbers larger than 700 are not supplied.**

# X92-4030-0x
# X92-4440-0x

# PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| **CD PLAYER UNIT (X32-5170-0x, X32-5190-0x)** | | | | | |
| C1,2 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C3 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C4 | | | C92-0566-05 | CHIP-TAN 10UF 6.3WV | |
| C5 | | | CC73GCH1H150J | CHIP C 15PF J | |
| C6 | | | CC73GCH1H020C | CHIP C 2.0PF C | |
| C7 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C8 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C10 | | | CK73GB1H472K | CHIP C 4700PF K | |
| C11 | | | CK73GB1H682K | CHIP C 6800PF K | |
| C12 | | | CK73GB1H332K | CHIP C 3300PF K | |
| C13 | | | CK73GB1C333K | CHIP C 0.033UF K | |
| C14 | | | CK73GB1H472K | CHIP C 4700PF K | |
| C15 | | | CK73GB1E473K | CHIP C 0.047UF K | |
| C16 | | | CC73GCH1H151J | CHIP C 150PF J | |
| C17 | | | CK73GB1H472K | CHIP C 4700PF K | |
| C18 | | | CC73GCH1H221J | CHIP C 220PF J | |
| C19,20 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C21 | | | CK73FB1A225K | CHIP C 2.2UF K | |
| C23 | | | CK73GB1H102K | CHIP C 1000PF K | |
| C24 | | | CK73GB1E223K | CHIP C 0.022UF K | |
| C25 | | | CK73GB1H153K | CHIP C 0.015UF K | |
| C26 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C28 | | | CK73GB0J105K | CHIP C 1.0UF K | |
| C29 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C33 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C35 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C39 | | | CK73GB1H152K | CHIP C 1500PF K | |
| C40 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C41 | | | CK73EB1C225K | CHIP C 2.2UF K | |
| C42 | | | CK73GB1H152K | CHIP C 1500PF K | |
| C44 | | | CK73GB1H103K | CHIP C 0.010UF K | |
| C46 | | | CK73GB1E473K | CHIP C 0.047UF K | |
| C51 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C55 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C67,68 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C71,72 | | | CK73GB1H471K | CHIP C 470PF K | |
| C77,78 | | | CC73GCH1H680J | CHIP C 68PF J | |
| C79,80 | | | CK73GB1H222K | CHIP C 2200PF K | |
| C85 | | | CK73GB1C104K | CHIP C 0.10UF K | |
| C89 | | | CK73GB1H222K | CHIP C 2200PF K | |
| CN1 | | | E40-9536-05 | FLAT CABLE CONNECTOR (16p) | |
| CN1 | | * | E41-0193-05 | FLAT CABLE CONNECTOR (16p) | |
| CN2 | | | E40-9339-05 | FLAT CABLE CONNECTOR (22P) | |
| CN2 | | | E41-0129-05 | FLAT CABLE CONNECTOR | |
| X1 | | | L78-0572-05 | RESONATOR 16.93MHZ | |
| CP1 | | | R90-1019-05 | MULTI-COMP 100 X2 | |
| CP2 | | | R90-1014-05 | MULTI-COMP 100 X4 | |
| R3 | | | RK73GB2A272J | CHIP R 2.7K J 1/10W | |
| R5 | | * | RK73GB2A361J | CHIP R 360 J 1/10W | |
| R6 | | | RK73GB2A272J | CHIP R 2.7K J 1/10W | |
| R9 | | | RK73FB2B100J | CHIP R 10 J 1/8W | |
| R10,11 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R12 | | * | RK73GB2A912J | CHIP R 9.1K J 1/10W | |
| R15 | | * | RK73GB2A824J | CHIP R 820K J 1/10W | |
| R16 | | | RK73GB2A223J | CHIP R 22K J 1/10W | |
| R17 | | | RK73GB2A433J | CHIP R 43K J 1/10W | |
| R18 | | * | RK73GB2A392J | CHIP R 3.9K J 1/10W | |
| R19 | | * | RK73GB2A513J | CHIP R 51K J 1/10W | |
| R20 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R21 | | * | RK73GB2A244J | CHIP R 240K J 1/10W | |
| R32 | | * | RK73GB2A683J | CHIP R 68K J 1/10W | |
| R34 | | * | RK73GB2A363J | CHIP R 36K J 1/10W | |
| R36 | | | RK73GB2A151J | CHIP R 150 J 1/10W | |
| R37 | | | RK73GB2A471J | CHIP R 470 J 1/10W | |
| R38 | | * | RK73GB2A224J | CHIP R 220K J 1/10W | |
| R40 | | * | RK73GB2A133J | CHIP R 13K J 1/10W | |
| R46 | | | RK73GB2A102J | CHIP R 1.0K J 1/10W | |
| R47 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R49 | | | RK73GB2A472J | CHIP R 4.7K J 1/10W | |
| R52 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R54 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R70 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R71 | | * | RK73GB2A113J | CHIP R 11K J 1/10W | |
| R73 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R74 | | | RK73GB2A123J | CHIP R 12K J 1/10W | |
| R75 | | | RK73GB2A333J | CHIP R 33K J 1/10W | |
| R76 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R79,80 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R81 | | | RK73GB2A333J | CHIP R 33K J 1/10W | |
| R82 | | * | RK73GB2A133J | CHIP R 13K J 1/10W | |
| R84 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| R101,102 | | * | RK73GB2A332J | CHIP R 3.3K J 1/10W | |
| R103,104 | | | RK73GB2A562J | CHIP R 5.6K J 1/10W | |
| R107,108 | | | RK73FB2B331J | CHIP R 330 J 1/8W | |
| R110 | | * | RK73FB2B201J | CHIP R 200 J 1/8W | |
| R117,118 | | * | RK73FB2B203J | CHIP R 20K J 1/8W | |
| R121,122 | | * | RK73FB2B203J | CHIP R 20K J 1/8W | |
| R125,126 | | * | RK73FB2B203J | CHIP R 20K J 1/8W | |
| R202 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R214 | | | RK73GB2A104J | CHIP R 100K J 1/10W | |
| R218 | | | RK73GB2A473J | CHIP R 47K J 1/10W | |
| R233 | | * | RK73GB2A622J | CHIP R 6.2K J 1/10W | |
| R234 | | | RK73GB2A103J | CHIP R 10K J 1/10W | |
| S1,2 | | * | S68-0863-05 | PUSH SWITCH | |
| S3 | | * | S68-0862-05 | PUSH SWITCH | |
| S4 | | * | S68-0864-05 | PUSH SWITCH | A2A3 |
| S4 | | * | S68-0864-05 | PUSH SWITCH | B2B3 |
| D1 | | | DAN202U | DIODE | |
| D2 | | | MA8051-L | ZENER DIODE | |
| D3 | | | DA204U | DIODE | |
| D4 | | | DAN202U | DIODE | |
| IC1 | | | AN22000AA | ANALOGUE IC | |
| IC2 | | * | MN662773KH2 | MOS-IC | B0B1B2 |
| IC2 | | * | MN662773KH2 | MOS-IC | B3B4B5 |
| IC2 | | * | MN662774KJ2 | MOS-IC | A0A1A2 |
| IC2 | | * | MN662774KJ2 | MOS-IC | A3A4A5 |

A0 : X92-4030-00 (DXM-6000W) A3 : X92-4030-03 (DXM-6003W)
A1 : X92-4030-01 (DXM-6001W) A4 : X92-4030-04 (DXM-6004W)
A2 : X92-4030-02 (DXM-6002W) A5 : X92-4030-05 (DXM-6005W)

B0 : X92-4440-00 (DXM-6100W) B3 : X92-4440-03 (DXM-6103W)
B1 : X92-4440-01 (DXM-6101W) B4 : X92-4440-04 (DXM-6104W)
B2 : X92-4440-02 (DXM-6102W) B5 : X92-4440-05 (DXM-6105W)

# PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| IC4 | | * | BA5824FP | ANALOGUE IC | |
| IC6 | | * | NJM4580M1 | ANALOGUE IC | |
| Q1 | | | MCH6101 | TRANSISTOR | |
| Q2 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| Q3 | | | DTA143XUA | DIGITAL TRANSISTOR | |
| Q4 | | | 2SA1362(Y) | TRANSISTOR | |
| Q5 | | | DTC124EUA | DIGITAL TRANSISTOR | |
| **CD MECHANISM ASSY (X92-4030-0x, X92-4440-0x)** | | | | | |
| 2 | 1B | * | A10-4827-12 | CHASSIS OUTER | |
| 5 | 2B | * | D10-4576-23 | ARM ASSY CLAMP | |
| 8 | 2A | * | D10-4579-03 | LEVER ASSY ROLLER | |
| 10 | 3A | * | D10-4581-13 | ARM DISC-L | |
| 11 | 2A | * | D10-4582-13 | ARM DISC-R | |
| 12 | 3A | * | D10-4583-03 | ARM JOINT-L | |
| 13 | 3A | * | D10-4584-03 | ARM JOINT-R | |
| 14 | 3B | * | D10-4585-03 | ARM CARRIER | |
| 15 | 2A | * | D10-4586-03 | SLIDER L | |
| 16 | 3B | * | D10-4587-02 | SLIDER R | |
| 17 | 3B | * | D10-4588-03 | SLIDER TRIG | |
| 18 | 3B | * | D10-4595-04 | ARM LOCK | |
| 19 | 3B | * | D10-4596-04 | ARM ROLLER | |
| 22 | 2A | * | D13-2151-04 | GEAR ROLLER | |
| 23 | 2B | * | D13-2152-04 | GEAR HELICAL-1 | |
| 24 | 3B | * | D13-2153-04 | GEAR SUN | |
| 25 | 3B | * | D13-2154-04 | GEAR PLANET | |
| 26 | 3B | * | D13-2155-04 | WORM 2 | |
| 27 | 3B | * | D13-2156-04 | GEAR HELICAL-2 | |
| 28 | 3B | * | D13-2157-04 | GEAR LOAD-1 | |
| 29 | 3B | * | D13-2158-04 | GEAR LOAD-2 | |
| 30 | 3B | * | D13-2168-04 | GEAR PICK-1 | |
| 31 | 3B | * | D13-2171-04 | GEAR PICK-2 | |
| 32 | 2B | * | D13-2172-03 | RACK (GEAR) | |
| 33 | 2A | * | D14-0759-04 | ROLLER N100X3DIES | |
| 35 | 2B | * | D21-2382-04 | SHAFT PICK | |
| 36 | 1A | * | D23-0954-04 | RETAINER | |
| 37 | 1B | * | D39-0246-05 | DAMPER | |
| 38 | 2B | * | G01-3072-04 | EXTENSION SPRING TRIGGER | |
| 39 | 2A | * | G01-3073-04 | TORSION COIL SPRING ROLLER-L | |
| 40 | 2A | * | G01-3074-04 | EXTENSION SPRING ROLLER-R | |
| 41 | 2B | * | G01-3075-04 | EXTENSION SPRING PICKUP | |
| 42 | 2A | * | G01-3076-04 | EXTENSION SPRING JOINT-SP | |
| 43 | 1B | * | G01-3077-04 | EXTENSION SPRING FLOATTING | |
| 44 | 2B | * | G02-1399-04 | FLAT SPRING CLAMP | |
| 45 | 2B | * | G02-1408-04 | FLAT SPRING WORM | |
| 51 | 1A | * | J21-9676-12 | MOUNTING HARDWARE GUIDE-BKT | |
| 52 | 3B | * | J21-9677-02 | MOUNTING HARDWARE GEAR-BKT | |
| 53 | 1B | * | J21-9678-03 | MOUNTING HARDWARE DAMPER-BKT | |
| 55 | 1A | * | J90-1001-11 | GUIDE 1 | |
| 56 | 1B | * | J90-1023-03 | GUIDE 2 | |
| DFPC1 | 3A | * | J84-0128-15 | FLEXIBLE P.W.B. PICK-FPC | |
| A | 2B | * | N09-4460-05 | TAPTITE SCREW PT2X8-SARA | |
| B | 1B | * | N09-4472-05 | MACHINE SCREW PICK-RACK | |

| Ref. No. | Add | New | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| C | 2B | * | N09-6004-05 | MACHINE SCREW M1.7X2.5 | |
| D | 1B | * | N09-6006-05 | TAPTITE SCREW ST-2X3.5 | |
| E | 2B | * | N09-6007-05 | MACHINE SCREW M2X2 | |
| F | 1A | * | N09-6051-05 | TAPTITE SCREW PT2X6-BIND | |
| G | 2A | * | N19-2163-04 | FLAT WASHER 1.6X0.25 | |
| H | 1B | * | N39-2020-46 | MACHIN SCREW M2X2 | |
| DM1 | 3B | * | T42-1066-04 | DC MOTOR ASSY SP | |
| DM2 | 2B | * | T42-1067-04 | DC MOTOR ASSY LO | |
| DPU1 | 2B | * | T25-0223-05 | OPTICAL PICKUP HEAD | |

A0 : X92-4030-00 (DXM-6000W) A3 : X92-4030-03 (DXM-6003W)
A1 : X92-4030-01 (DXM-6001W) A4 : X92-4030-04 (DXM-6004W)
A2 : X92-4030-02 (DXM-6002W) A5 : X92-4030-05 (DXM-6005W)

B0 : X92-4440-00 (DXM-6100W) B3 : X92-4440-03 (DXM-6103W)
B1 : X92-4440-01 (DXM-6101W) B4 : X92-4440-04 (DXM-6104W)
B2 : X92-4440-02 (DXM-6102W) B5 : X92-4440-05 (DXM-6105W)

X92-4030-0x
X92-4440-0x

# SPECIFICATIONS

| | |
|---|---|
| Laser Diode | GaAlAs (λ=780nm) |
| Digtal Filter (D/A) | 8 Times Over Sampling |
| D/A Converter | 1 Bit |
| Spindle Speed | 500~200 (CLV) |
| Wow & Flutter | Below Measurable Limit |
| Frequency Response | 10-20kHz (±1dB) |
| THD | 0.01% (1kHz) |
| S/N Ratio (dB) | 96dB (1kHz) |
| Dynamic Range | 93dB |
| Channel Separation | 85dB |

**KENWOOD** follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.


## KENWOOD CORPORATION
14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-8501 Japan

KENWOOD SERVICE CORPORATION
P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.
Alameda Ministro Rocha Azevedo No. 456,
Edificio Jaú, 10o Andar, Cerqueira César, Cep 0140-001,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED
Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.
13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.
Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)
16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,
Hong Kong

KENWOOD ELECTRONICS GULF FZE
P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.
2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.
1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan,
Malaysia